SUPPLEMENT TO

April 1985

ANESAV

ISSN 0003-3022

Anesthesiology

The Journal of

The American Society of Anesthesiologists, Inc.

Five-Year Cumulative Index

Volumes 52–61

1980–1984

Anesthesiology

The Journal of
The American Society of
Anesthesiologists, Inc.

Editor-in-Chief
JOHN D. MICHENFELDER, Rochester, Minnesota

Editors
JOHN J. DOWNES · H. BARRIE FAIRLEY
CARL C. HUG, JR. · DAVID E. LONGNECKER
EDWARD LOWENSTEIN · RICHARD I. MAZZE
ROBERT G. MERIN · RONALD D. MILLER
EDWIN S. MUNSON · LAWRENCE J. SAIDMAN

FIVE-YEAR CUMULATIVE INDEX
VOLUMES 52–61 · 1980–1984

Published by
J. B. LIPPINCOTT COMPANY
Philadelphia

ANESTHESIOLOGY (ISSN 0003-3022) is published 13 times a year (monthly except September, in which two issues are published) for the American Society of Anesthesiologists, Inc., by J. B. Lippincott Company, East Washington Square, Philadelphia, PA 19105. Printed in the U. S. A. © Copyright 1985 by the American Society of Anesthesiologists, Inc. Second class postage paid at Hagerstown, MD, and at additional mailing offices.

Subscription information, orders or changes of address: (except Japan, India, Nepal, Bangladesh, and Sri Lanka) 2350 Virginia Avenue, Hagerstown, MD 21740, or call 1-800-638-3030; in Maryland, call collect 301-824-7300. In Japan, contact Woodbell Scope, 11-11 Shoto 2-chome, Shibuya-ku, Tokyo 150, Japan. In India, Nepal, Bangladesh, and Sri Lanka, contact Universal Subscription Agency Pvt. Ltd., 117/H-1/294-B, Model Town, Pandu Nagar, Kanpur-208 025, India.

Annual subscription rates: U. S. $20.00; all other countries except Japan, $65.00. Single copies $6.00. Rates for air mail delivery available upon request.

POSTMASTER: Send address changes to Anesthesiology, 2350 Virginia Avenue, Hagerstown, MD 21740.

Volumes 52–61

1980–1984

THE JOURNAL OF Anesthesiology

THE AMERICAN SOCIETY OF ANESTHESIOLOGISTS, INC.

FIVE-YEAR SUBJECT AND AUTHOR INDEXES • VOLUMES 52–61, 1980–1984

The volume number appears in **boldface,** followed by the page number in the volume.

Subject entries for all material in the JOURNAL volumes appear in this index. Entries from the JOURNAL departments are identified as follows: Book Reviews—(BR); Clinical Reports—(CR); Correspondence—(CO); Editorial Views—(EV); Laboratory Reports—(LR); Original Article—(OA); Review Article—(RA); Medical Intelligence—(MI); Special Article—(SA); Reports of Scientific Meetings—(SM).

Index of Volumes:

VOLUME	YEAR
52	1980 (Jan.–June)
53	1980 (July–Dec.)
54	1981 (Jan.–June)
55	1981 (July–Dec.)
56	1982 (Jan.–June)
57	1982 (July–Dec.)
58	1983 (Jan.–June)
59	1983 (July–Dec.)
60	1984 (Jan.–June)
61	1984 (July–Dec.)

SUBJECT INDEX

A

Abdominal aorta, ***See under*** **Arteries**
Abdominal surgery, ***See under*** **Surgery**
Abortion, ***See under*** **Pregnancy; Surgery**
Accessory nerve, ***See under*** **Nerve(s)**
Accidents, ***See under*** **Complications**
Acetylcholine, ***See under*** **Brain; Parasympathetic nervous system; Receptors**
Achondroplasia, ***See under*** **Complications**
Achondroplastic dwarf
migrating disc complicating spinal decompression in (CR) [McPherson, North, Udvarhelyi & Rosenbaum], **61:** 764
Acid-base equilibrium
acidosis
blood pH and brain uptake of ^{14}C-morphine in (OA) [Schulman, Kaufman, Eisenstein & Rapoport], **61:** 540
cardiac fiber action potential duration induced by, halothane diminishes changes in (OA) [Stowe, Bosnjak & Kampine], **61:** 245
metabolic
and respiratory distress and beta-endorphin-like immunoreactivity in humans (OA) [Yanagida & Corssen], **55:** 515
respiratory
effects of, on pancuronium and vecuronium neuromuscular blockades in anesthetized humans (OA) [Gencarelli, Swen, Koot & Miller], **59:** 376
effects of, on sulfobromophthalein disposition in rats (OA) [Hurwitz & Fischer], **60:** 537
unusual case of, during general anesthesia (CR) [Klein & Liburn], **53:** 248
alkalosis
blood pH and brain uptake of ^{14}C-morphine in (OA) [Schulman, Kaufman, Eisenstein & Rapoport], **61:** 540

cardiac fiber action potential induced by, halothane diminishes changes in (OA) [Stowe, Bosnjak & Kampine], **61:** 245
at any body temperature (EV) [Williams & Marshall], **56:** 1
bicarbonate
and noradrenaline-induced contractile response of rabbit isolated aorta (OA) [Stokke, Andersen, Brinklov, Nedergaard, Hole & Rasmussen], **60:** 400
carbon dioxide
and noradrenaline-induced contractile response of rabbit isolated aorta (OA) [Stokke, Andersen, Brinklov, Nedergaard, Hole & Rasmussen], **60:** 400
management
temperature effects, and temperature correction of arterial blood-gas values (CO) [Sivarajan], **56:** 329
pH
average
rebuttal (CO) [Kamaya, Mashimo & Veda], **52:** 449
and averaging acidity values (CO) [Tomlin], **53:** 86
averaging, vs. H^+ values, an irrelevant debate (CO) [Gregono], **53:** 85
and dural diffusion of local anesthetics (CO) [Greene], **60:** 619
and P_{CO_2}, definition of values of, at any body temperature (EV) [Williams & Marshall], **56:** 1
pregnancy
and further suggestions on epidural spread in pregnancy (CO) [Bodner], **59:** 610
protein-binding
of bupivacaine, influence of lactic acid on (OA) [Coyle, Denson, Thompson, Myers, Arthur & Bridenbaugh], **61:** 127
and simple way to convert *p*H to hydrogen ion concentration (CO) [Leon-Ruiz], **59:** 155
respiratory
effects of, on pancuronium and vecuronium neuromuscular blockades in anesthetized humans (OA) [Gencarelli, Swen, Koot & Miller], **59:** 376
Acidosis, *See under* Acid-base equilibrium
Acquired immunodeficiency syndrome (AIDS), *See under* Immune response
Acromegaly, *See also under* Metabolism
use of fiberoptic laryngoscopy to avoid tracheostomy in (CR) [Ovassapian, Doka & Romsa], **54:** 429
ACTH, *See under* Hormones
Action potential, *See under* Heart
Actomyosin, *See under* Muscle, skeletal
Adaptors, *See under* Equipment
Adductor pollicis, *See under* Muscle, skeletal
Adenine nucleotides, *See under* Metabolism
Adenosine, *See under* Anesthetic techniques, hypotension, induced; Blood pressure; Pharmacology
Adenosine monophosphate, *See under* Metabolism
Adenosine triphosphate, *See under* Anesthetic techniques, hypotension, induced; Metabolism
Adenylate cyclase, *See under* Metabolism
Adrenal, *See under* Hormones; Surgery; Sympathetic nervous system
Adrenal medulla, *See under* Sympathetic nervous system
Adrenergic nerve endings, *See under* Sympathetic nervous system
Adrenergic receptors, *See under* Receptors
Adrenergic transmission, *See under* Sympathetic nervous system
Adrenocorticotropic hormones, *See under* Hormones
Adult respiratory distress syndrome, *See under* Complications
Adverse drug reaction, *See under* Complications
Aerobic metabolism, *See under* Cells
Aerosis
local anesthetics, compared (OA) [Downes, Hirshman & Leon], **58:** 216
Age factors
anesthetic solubility
of volatile anesthetics in blood (OA) [Lerman, Gregory, Willis & Eger], **61:** 139
and baroresponse and cardiovascular depression by halothane (CO) [Ware, Robinson & Gregory], **58:** 387
and baroresponse and cardiovascular depression by halothane (CO) [Friesen], **58:** 387
and cardiovascular and regional blood flow changes during halothane anesthesia in rat (OA) [Hoffman, Miletich, Albrecht, Seals & Jozefiak], **56:** 444
child abuse
delayed awakening from anesthesia and (CR) [Ott, Pollack, Riddick, Reisch & Epstein], **58:** 178
in perianesthetic management (EV) [Betts & Nicholson], **58:** 115
and epidural dose response in adult men (CR) [Park, Hagins, Rivat & Macnamara], **56:** 318
evaluation of effect of, on pharmacokinetics, pharmacodynamics, and dose-response relationships of pancuronium (OA) [Duvaldestin, Saada, Berger, D'Hollander & Desmonts], **56:** 36
geriatrics
gender, and obesity, effect of, on midazolam kinetics (OA) [Greenblatt, Abernethy, Locniskar, Harmatz, Limjuco & Shader], **61:** 27
in hypertensive rats, cerebrovascular and metabolic effects of SNP induced hypotension and (OA) [Hoffman, Albrecht, Miletich, Holland, Anderson & Seals], **56:** 427
lack of, in atracuronium besylate requirement for stable muscle relaxation during surgery (CR) [d'Hollander, Luyckx, Barvais & DeVille], **59:** 237
in nitrous oxide requirement of mice (OA) [Koblin, Lurz & Egers], **58:** 428
pharmacokinetics
studies urged by National Institute on Aging (CO) [Steinberg], **57:** 554
of thiopental, in pediatric patients (OA) [Sorbo, Hudson & Loomis], **61:** 666
thiopental disposition as function of, in female patients undergoing surgery (OA) [Jung, Mayersohn, Perrier, Calkins & Reynolds], **56:** 263
AIDS, *See under* Immune response
Air embolism, *See under* Complications; Embolism
Airway, *See also* Equipment
edema
as anaphylactoid reaction to succinylcholine (CR) [Cohen, Liu & Marx], **56:** 467
endotracheal suctioning of, intravenously administered lidocaine prevents intracranial hypertension during (CR) [Donegin & Bedford], **52:** 516
endotracheal tube cuffs in, air volume in (CO) [Chandler], **53:** 437
epiglottis, adult (CO) [Bishop & Weymuller], **57:** 545
epiglottis, in adult (CR) [Bishop], **55:** 697
extubation, from ambient or expiratory positive airway pressure in adults (OA) [Quan, Falltrick & Schlobohm], **55:** 53
foreign body
as complication of lightwand-guided nasotracheal intubation (CR) [Stone, Stirt, Kaplan & McLean], **61:** 780
hemorrhage
pulmonary
from pulmonary artery catheterization treated with endobrachial intubation (CR) [Stein & Lisbon], **55:** 694
Larsen's syndrome, severe, treatment of, with continuous positive airway pressure (CPAP) (CR) [Kanter Pollack, Wright & Grundfast], **57:** 54

maintenance, aid to, during operative sedation (CO) [DeLeeuw], **60:** 388
management
during anesthesia in patients with epidermolysis bullosa dystrophica (CR) [James & Wark], **56:** 323
difficult tracheal intubations, use of flexible radiopaque directable catheter for (CO) [Davidson, Reynolds & Stewart], **55:** 605
for ophthalmic and head and neck surgery (CO) [Bedger, Chang, Larson & Bleyaert], **58:** 199
in parturient (CO) [Parker], **60:** 167
pediatric
fiberoptic bronchoscope in (CO) [Ovassapian, Dykes & Yelich], **56:** 412
and rapid sequence induction in patients with full stomach (CO) [Baraka], **57:** 543
mediastinal mass
anesthetic management of patient with (CR) [Neuman, Weingarten, Abramowitz, Kushins, Abramson & Ladner], **60:** 144
nerves
and muscle, differential effects of halothane on (OA) [Korenaga, Takeda & Ito], **60:** 309
in normal subjects following endotracheal intubation (OA) [Gal], **52:** 27
obstruction
and achalasia of esophagus (CR) [Travis, Saini & O'Sullivan], **54:** 87
in adult epiglottis (CO) [Bishop & Weymuller], **57:** 545
anatomy
anomalous tracheal bronchus, with endotracheal intubation (CR) [Vredevoe, Brechner & Moy], **55:** 581
anesthetic management of patient with (CR) [Neuman, Weingarten, Abramowitz, Kushins, Abramson & Ladner], **60:** 144
in critically ill patients, use of flexible fiberoptic bronchoscope to change endotracheal tubes in (CR) [Rosenbaum, Rosenbaum, Cole, Askanazi & Hyman], **54:** 169
emergency transtracheal ventilation in (CO) [DeLisser & Muravchick], **55:** 606
of endotracheal tube by lidocaine jelly (CR) [Uehira, Tanaki, Oda & Sato], **55:** 598
in endotracheal tube obstruction by nitrous oxide (CR) [Munson, Stevens & Redfern], **52:** 275
in epiglottis in adult (CR) [Bishop], **55:** 697
esophageal obturator airway, unusual (CR) [Berkebile & Narla], **57:** 414
foreign body
method for anesthetic management of (CR) [Roberts, Rayburn, Matlak & Nixon], **56:** 480
in Hallervorden-Spatz disease, anesthetic management in (CR) [Roy, McLain, Wise & Shaffner], **58:** 382
by laryngeal web, difficult endotracheal intubation in (CR) [Berkebile & Narla], **57:** 414
laryngeal, noncardiogenic pulmonary edema following (CR) [Weissman, Damask & Yang], **60:** 163
by mediastinal lymphoma, cervical node biopsy in, death on induction of anesthesia for (CR) [Keon], **55:** 471
after naso-tracheal intubation (CR) [Glinsman & Pavlin], **56:** 229
in newborn, perioperative management of (CR) [Diaz, Stedman & LeTard], **61:** 608
in obstetrics, management of (CO) [Millar], **52:** 523
in patient during CO_2 arthroscopy (CO) [Shupak, Shuster & Funch], **60:** 171
in rare cause of stridor (CO) [Zmyslowski & Janfaza], **52:** 95
with secondary lobar emphysema, development of, during anesthesia (CR) [Spielman, Sprague, Mann & Mandell], **56:** 61
in sleep apnea, Treacher-Collins syndrome with: anesthetic considerations (CO) [Roa & Moss], **60:** 71
supraglottic
following anesthesia with head positioned in forced flexion (CR) [Bennett, Lee & Wright], **54:** 78
following surgical manipulation of posterior cranial fossa (CR) [Gorski, Rao & Scarff], **54:** 80
tracheal, near total, temporary partial cardiopulmonary bypass during emergency management of (CR) [Wilson, Steiger, Jacobs, Sison & Holsey], **61:** 103
tracheobronchial tumors, anesthetic management during Nd-YAG laser resection for (CO) [Vourc'h, Fischler, Personne, Colchen & Toty], **61:** 636
tracheobronchial tumors, anesthetic management during Nd-YAG laser resection for (CO) [Warner, Warner & Leonard], **61:** 637
treatment of, postlaryngospasm pulmonary edema in adults following (CO) [Melnick], **60:** 516
treatment of, with continuous positive airway pressure (CPAP) (CR) [Kanter, Pollack, Wright & Grundfast], **57:** 54
unusual cause for, in young healthy adult (CO) [Bishay, Echiverri, Abu-Zaineh & Lee], **60:** 610
in use of microlaryngeal surgery endotracheal tube (CO) [Torres & Reynolds], **53:** 355
in use of reinforced endotracheal tubes—a hazard alert (CO) [Rendell-Baker], **53:** 268
obstructive sleep apnea
undiagnosed, episodic complete airway obstruction in children with (CR) [Weinberg, Kravath, Phillips, Mendez & Wolf], **60:** 356
oral
removal of, detachment of esophageal stethoscope cuff during (CO) [Gandhi & Dhamee], **58:** 202
in uvular edema without endotracheal intubation (CO) [Shulman], **55:** 82
patent
maintenance of
safe technique for changing endotracheal tubes in (CO) [Desai & Fenel], **53:** 267
pharyngeal teratoma
in newborn, perioperative management of (CR) [Diaz, Stedman & LeTard], **61:** 608
preparation of, for nasotracheal intubation (CO) [Berger & Stirt], **58:** 105
pressure, *See under* Ventilation
problem
in partial severance of oronasotracheal tube during le Fort I procedure (CO) [Patel, Cotten & Turndorf], **53:** 357
reactivity in humans (MI) [Hirshman], **58:** 170
resistance
in adult with suprasellar tumor (CR) [Veselis & Korbon], **58:** 481
mechanism of action of inhalational anesthesia on (OA) [Hirshman, Edelstein, Peetz, Wayne & Hall], **56:** 107
stridor
rare cause of (CO) [Zmyslowski & Janfaza], **52:** 95
subglottic stenosis, anesthetic management and gas scavenging for laser surgery in (CR) [Rita, Seleny & Holinger], **58:** 191
tear
unusual presentation of (CR) [Freiberger], **61:** 204
trachea
constriction of, by succinylcholine, mechanism (OA) [Koga, Downes, Leon & Hirshman], **55:** 127

tracheal atresia
with tracheoesophageal fistula, management of (CR) [Alfrey, Ward, Plumer & Lynch], **53:** 242
tracheal model
endotracheal tube cuff residual volume and lateral wall pressure in (LR) [Tonnesen, Vereen & Arens], **55:** 680
tracheobronchomalacia, severe, treatment of, with continuous positive airway pressure (CPAP) (CR) [Kanter, Pollack, Wright & Grundfast], **57:** 54
tracheoesophageal fistula
tracheal atresia with, management of (CR) [Alfrey, Plumer & Lynch], **53:** 242
tracheomegaly, management of (CO) [Parris], **57:** 249
tracheomegaly (CR) [Parris & Johnson], **56:** 141
Airway closure, *See also under* Lung(s)
extubation, endotracheal
complications of (CR) [Hilley, Henderson & Giesecke], **59:** 149
obstruction
early detection of, by monitoring carbon dioxide concentration in respiratory gas (CR) [Murray & Modell], **59:** 344
Airway embolism, *See under* Embolism
Airway obstruction, *See under* Complications
Airway occlusion pressure, *See under* Ventilation
Airway pressure, *See also under* Lung(s)
anatomy
deviation of, with cervical spine disease in erosive polyarticular arthritis (OA) [Keenan, Stiles & Kaufman], **58:** 441
in DiGeorge syndrome, anesthesia for surgery and (CR) [Flashburg], **58:** 479
juvenile, in adult with suprasellar tumor (CR) [Veselis & Korbon], **58:** 481
Alarms, *See under* Equipment
Albumin, *See under* Blood; Protein
Alcohol
abuse
and anesthesiology (SA) [Spiegelman, Saunders & Mazze], **60:** 335
naloxone as antagonist in (CO) [Barros & Rodriguez], **54:** 174
and inhaled anesthetics, potencies of, in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, Deady & Eger], **56:** 18
in inhibition of synaptosomal GABA disposal (OA) [Cheng & Brunner], **55:** 34
membrane effects, erythrocyte expansion (OA) [Bull, Brailsford & Bull], **57:** 399
metabolism by rat hepatic microsomes of fluorinated ether anesthetics following consumption of (OA) [Rice, Dooley & Mazze], **58:** 237
Alcuronium, *See under* Neuromuscular relaxants
Aldosterone, *See under* Hormones
Alfentanil, *See under* Analgesics; Anesthetics, intravenous; Pharmacokinetics; Potency, anesthetic
Alkalosis, *See under* Acid-base equilibrium
Allen's test, *See under* Arteries; Complications
Allergy
anaphylactoid reaction
to intravascular contrast media (RA) [Goldberg], **60:** 46
in morphine administration, hemodynamics, plasma histamine, and catecholamine concentrations during (CR) [Fahmy], **55:** 329
in protamine administration to patient allergic to fish (CR) [Knape, Schuller, Haan, Jong & Bovill], **55:** 324
to succinylcholine, upper airway edema as (CR) [Cohen, Liu & Marx], **56:** 467
thiopental, and reagin involvement (CR) [Lilly & Hoy], **53:** 335
to thiopental; false-positive RAST in patients with elevated serum IgE (CR) [Dueck & O'Connor], **61:** 337
asthma
and inhalational anesthesia and histamine release during bronchospasm (OA) [Hermens, Edelstein, Hanifin, Woodward & Hirshman], **61:** 69
protamine, management of patient with, for cardiac surgery (CR) [Campbell, Goldstein & Atkins], **61:** 761
dextran
intraperitoneal (CO) [Reisner], **60:** 259
hypersensitivity
thiopental, and reagin involvement (CR) [Lilly & Hoy], **53:** 335
reaginic antibodies to drugs used in anesthesia and (OA) [Fisher], **52:** 318
relevance of plasma histamine levels to hypotension (CO) [Beaven], **57:** 425
relevance of plasma histamine levels to hypotension (CO) [Hirshman, Downes & Butler], **57:** 424
relevance of plasma histamine levels to hypotension (CO) [Philbin, Moss, Rosow & Savarese], **57:** 425
thiopental
leukocyte histamine release in (CR) [Hirshman, Peters & Cartwright-Lee], **56:** 64
Alpha adrenergic blockade, *See under* Sympathetic nervous system
Alpha adrenergic receptors, *See under* Sympathetic nervous system
Alpha methyldopa, *See under* Sympathetic nervous system, sympathetic agents
Alpha receptor, *See under* Receptors; Sympathetic nervous system
Alpha-1-acid glycoprotein, *See under* Protein
Alpha-bungarotoxin, *See under* Pharmacology
Alphadione, *See under* Anesthetics, intravenous; Antagonists, neuromuscular relaxants
Alphaprodine, *See under* Analgesics, narcotic
Alphaxalone, *See under* Anesthetics, intravenous
Alternating lung ventilation, *See under* Ventilation
Althesin (alphadione), *See under* Anesthetics, intravenous; Antagonists, neuromuscular relaxants
Alveolar proteinosis, *See under* Lung(s)
Alveolus, *See under* Lung(s)
Amino acids, *See under* Cells; Metabolism
Aminobutyric acid, *See under* Brain
4-Amino-2-chlorobenzoic acid, *See under* Biotransformation
4-Aminophylline, *See under* Antagonists, neuromuscular relaxants
Aminophylline, *See under* Pharmacokinetics; Pharmacology; Sympathetic nervous system
4-Aminopyridine, *See under* Antagonists, neuromuscular relaxants
Amitriptyline, *See under* Pharmacology
Ammonia intoxication, *See under* Complications
Amnesia, *See under* Memory
Amobarbital, *See under* Hypnotics, barbiturates
Amphetamine, *See under* Analeptics
Amputation, *See under* Complications
Amygdala, *See under* Brain
Analeptics
bicuculline
potency of, in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, O'Connor, Deady & Eger], **56:** 25
doxapram, physostigmine, or naloxone, electroencephalographic evidence of arousal in dogs from halothane after (OA) [Roy & Stulken], **55:** 392
flurothyl
potency of, in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, O'Connor, Deady & Eger], **56:** 25

pentylenetetrazol
potency of, in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, O'Connor, Deady & Eger], **56:** 25
picrotoxin
potency of, in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, O'Connor, Deady & Eger], **56:** 25
strychnine
potency of, in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, O'Connor, Deady & Eger], **56:** 25
Analgesia
and anesthesia, need for clearer distinction between, in relation to opiate system (CO) [Gillman & Footerman], **54:** 524
measurement
and CNS sensitivity to lidocaine, sensitivity to pain predicts (CR) [Korbon, Rowlingson & DiFazio], **61:** 767
of epidural and intramuscular morphine in post-cesarean patients (OA) [Youngstrom, Cowan, Sutheimer, Eastwood & Yu], **57:** 404
in lidocaine for experimental pain (OA) [Rowlingson, DiFazio, Foster & Carron], **52:** 20
of segmental effect of morphine injected into epidural space in man (CR) [Asari, Inoue, Shibata & Soga], **54:** 75
narcotic
ceiling effect due to? (CO) [Eisele & Steffey], **60:** 392
meperidine, in study of pain relief and plasma concentrations from epidural and intramuscular morphine in post-cesarean patients (OA) [Youngstrom, Cowan, Sutheimer, Eastwood & Yu], **57:** 404
morphine, epidural and intramuscular, in post-cesarean patients, pain relief and plasma concentrations from (OA) [Youngstrom, Cowan, Sutheimer, Eastwood & Yu], **57:** 404
neurosurgical
and tension pneumocephalus and intermittent drainage of ventricular CSF (CO) [Drummond], **60:** 609
nitrous oxide
in antagonism of, by naloxone in man (OA) [Yang, Clark & Ngai], **52:** 414
and obstetric anaesthesia, First European Congress of (SM), **52:** 458
obstetrics
airway management in (CO) [Parker], **60:** 167
and bupivacaine cardiotoxicity in pregnant patient with mitral valve prolapse (CO) [Batra, Bridenbaugh, Caldwell, Crawford & Hecker], **60:** 170
bupivacaine cardiotoxicity in, may be more related to technique than to drug (CO) [Knapp], **60:** 257
cardiotoxicity of local anesthetics in (EV) [Marx], **60:** 3
in cesarean section following ruptured cerebral aneurysm (CR) [Kofke, Wuest & Ginnis], **60:** 242
cimetidine in (CO) [Berman & Patel], **60:** 391
cimetidine in (CO) [Moir], **60:** 391
for combined cesarean section and clipping of intracerebral aneurysm (CR) [Lennon, Sundt & Gronert], **60:** 240
dural diffusion of local anesthetics in (CO) [Greene], **60:** 619
epinephrine and epidural narcotics in (CO) [Collier], **60:** 168
optimal test dose for epidural anesthesia (CO) [Moir & McMorland], **60:** 507
postoperative
epidural morphine in, for postcesarean patient (OA) [Cohen & Woods], **58:** 500
from epidural and intramuscular morphine in post-cesarean patients (OA) [Youngstrom, Cowan, Sutheimer, Eastwood & Yu], **57:** 404
epinephrine and epidural narcotics in (CO) [Collier], **60:** 168
following general anesthesia for morbidly obese patients (OA) [Cork, Vaughan & Bentley], **54:** 310
in relief of postsurgical pain, serum levels following epidural administration of morphine and correlation with (OA) [Weddell & Ritter], **54:** 210
suppresses noxiously evoked activity of WDR neurons in dorsal horn of spinal cord (OA) [Collins, Kitahata, Matsumoto, Homma & Suzukawa], **60:** 269
and suppression of WDR neurons, by spinal fentanyl (OA) [Suzukawa, Matsumoto, Collins, Kitahata & Yuge], **58:** 510
suppression of noxiously evoked WDR dorsal horn neuronal activity by (OA) [Homma, Colins, Kitahata, Matsumoto & Kawahara], **58:** 232
time course of mental and psychomotor effects of 30 percent nitrous oxide in, during inhalation and recovery (OA) [Korttila, Ghoneim, Jacobs, Mewaldt & Petersen], **54:** 220
Analgesia techniques
epidural morphine
in children (CR) [Shapiro, Jedeikin, Shalev & Hoffman], **61:** 210
Analgesics
abuse
and anesthesiology (SA) [Spiegelman, Saunders & Mazze], **60:** 335
alfentanil
ED_{50} of, for induction of anesthesia in unpremedicated young adults (OA) [McDonnell, Bartkowski & Williams], **60:** 136
as kinetically predictable (EV) [Stanski & Hug], **57:** 435
pharmacokinetics of (OA) [Bovill, Sebel, Blackburn & Heykants], **57:** 439
dezocine
ventilatory and analgesic effects of, in humans (OA) [Gal & DiFazio], **61:** 716
fentanyl
actions of, in relation to dose and plasma concentration in unanesthetized dogs (OA) [Arndt, Mikat & Parasher], **61:** 355
dose-independent pharmacokinetics of (OA) [Murchy, Hug & McClain], **59:** 537
metabolites, identification and quantitative determination of, by gas chromatography-mass spectrometry (LR) [Goromaru, Matsuura, Yoshimura, Miyawaki, Sameshima, Miyao, Furuta & Baba], **61:** 73
postoperative, clinical advantages in, given epidurally (CR) [Lomessy, Magnin, Viale, Motin, & Cohen], **61:** 466
seizures induced by, activate subcortical brain metabolism (OA) [Tommasino, Maekawa & Shapiro], **60:** 283
hydromorphine
and intravenous droperidol, early respiratory depression with (CR) [Cohen, Rothblatt & Albright], **59:** 569
ketamine
opiate receptor mediation of (OA) [Finck & Ngai], **56:** 291
mechanism of action, and opiate receptor mediation (OA) [Finck & Ngai], **56:** 291
methadone
in postoperative pain control, doses and blood concentration-response relationships (OA) [Gourlay, Willis & Wilson], **61:** 19
titration to avoid excessive respiratory depression (CO) [Wangler & Rosenblatt], **59:** 363
titration to avoid excessive respiratory depression (CO) [Gourlay, Willis & Wilson], **59:** 364
morphine
-induced respiratory depression in humans, physostigmine antagonizes (OA) [Snir-Mor, Weinstock, Davidson & Bahar], **59:** 6

intravenous or subarachnoid, effects of, on cerebral and spinal cord hemodynamics and antagonism with naloxone in dogs (OA) [Matsumiya & Dohi], **59:** 175

mechanism of epidural lidocaine reversal of tachyphylaxis to (CO) [Coombs], **59:** 486

in spinal anesthesia, effects of, on spinal cord blood flow (EV) [Yaksh], **59:** 173

narcotic

codeine, and zomepirac, compared as analgesic premedicants in short-stay surgery (CR) [Dunn, Morison, Fragas-Babjak & Goldsmith], **58:** 265

enflurane

anesthetic potency of, in terms of its reduction of enflurane MAC (OA) [Murphy & Hug], **57:** 485

high-dose, effects of, on cerebral circulation and metabolism in rats (OA) [Carlsson, Smith, Keykhah, Englebach & Harp], **57:** 375

in study of pulmonary vascular response to nitrous oxide (OA) [Schulte-Sasse, Hess & Tarnow], **57:** 9

epidural, epinephrine and (CO) [Collier], **60:** 168

fentanyl

-associated delirium in man (CR) [Crawford & Baskoff], **53:** 168

etomidate vs. thiopental with and without—a comparative study of awakening in man (CR) [Horrigan, Moyers, Johnson, Eger, Margolis & Goldsmith], **52:** 362

high-dose, effects of, on electroencephalogram (OA) [Sebel, Bovill, Wauquier & Rog], **55:** 203

high-dose, in coronary artery disease, myocardial blood flow and oxygen consumption during (OA) [Sonntag, Larsen, Hilfiker, Kettler & Brockschnieder], **56:** 417

and morphine, exposure to, contractile responses of canine tracheal muscle during (OA) [Toda & Hotano], **53:** 93

in narcotic "anesthesia" in eighties (EV) [Lowenstein & Philbin], **55:** 195

-N_2O anesthesia, and morphine-N_2O anesthesia, human cardiovascular responses to endotracheal intubation during (CR) [Bennett & Stanley], **52:** 520

-oxygen anesthesia for aortocoronary bypass operation, hemodynamic changes during (OA) [Waller, Hug, Nagle & Craver], **55:** 212

postoperative rigidity following (CR) [Christian, Waller & Moldenhauer], **58:** 275

tissue redistribution of, and termination of its effects in rats (OA) [Hug & Murphy], **55:** 369

and gastric emptying in labor (CO) [Nimmo], **53:** 263

-halothane interaction in rats (OA) [Kissin, Kerr & Smith], **60:** 553

intrathecal, 0.4 mg, respiratory depression following (CO) [Glass], **60:** 256

intrathecal opiates, a powerful tool to be used with caution (CO) [Stanley], **53:** 527

intrathecal, pharmacokinetics aspects of (OA) [Nordberg, Hedner, Mellstrand & Dahlstrom], **60:** 48

as mechanism of pain inhibition intrinsic to central nervous system (EV) [Lieveskind], **54:** 445

meperidine

concentrations, blood, and analgesic response, relationship between (OA) [Austin, Stapleton & Mather], **53:** 460

in improvement of analgesic therapy (EV) [Hug], **53:** 441

intrathecal actions of, studies in primate on analgetic effects associated with (OA) [Yaksh & Reddy], **54:** 457

maternally administered, duration of effect of, on neonatal neurobehavior (CR) [Hodgkinson & Husain], **56:** 51

peridural, in humans (OA) [Glynn, Mather, Cousins, Graham & Wilson], **55:** 520

methadone

pharmacodynamics and pharmacokinetics of, during peri-operative period (OA) [Gourlay, Wilson & Glynn], **57:** 458

morphine

addiction, opiate withdrawal syndrome following (CR) [Tung, Tenicela & Winter], **53:** 340

in assessment of ventilatory and analgesic effects of dezocine in humans (OA) [Gal & DiFazio], **61:** 716

biphasic depression of ventilatory responses to CO_2 following (OA) [Kafer, Brown, Scott, Findlay, Butz, Teeple & Ghia], **58:** 418

blood pH and brain uptake of ^{14}C-morphine (OA) [Schulman, Kaufman, Eisenstein & Rapoport], **61:** 540

and bupivacaine, for continuous epidural analgesia in labor, double-blind comparison of (OA) [Writer, James & Wheeler], **54:** 215

changes in rib cage and diaphragm contribution to ventilation after (EV) [Marsh, Rehder & Knopp], **55:** 493

changes in rib cage and diaphragm contribution to ventilation after (EV) [Rigg & Rondi], **55:** 507

constant epidural infusion, implantation technique and efficacy (CR) [Coombs, Saunders, Gaylor & Pageau], **56:** 469

effect on motor reaction threshold in rats, halothane antagonizes (OA) [Kissin & Jebeles], **61:** 671

effects on cardiac output and regional blood flow distribution in conscious dogs (OA) [Priano & Vatner], **55:** 236

epidural and systemic, postthoracotomy pain and pulmonary function following (OA) [Shulman, Sandler, Bradley, Young & Brebner], **61:** 569

epidural, and ventilatory depression (CO) [Doblar], **56:** 487

epidural, and ventilatory depression (CO) [Knill, Lam, Thompson & Doblar], **56:** 486

epidural, following epidural local anesthesia: effect on ventilatory and airway occlusion pressure responses to CO_2 [Doblar, Muldoon, Abbrecht, Baskoff & Watson], **55:** 423

epidural, for postcesarean patient (OA) [Cohen & Woods], **58:** 500

epidural, for postoperative pain relief (OA) [Martin, Salbaing, Blaise, Tetrault & Tetreault], **56:** 423

epidural, in children (CR) [Shapiro, Jedeikin, Shalev & Hoffman], **61:** 210

epidural, in terminally ill patient (CO) [McCoy & Miller], **57:** 427

epidural, influence of epinephrine as adjuvant to (OA) [Bromage, Camporesi, Durnat & Nielsen], **58:** 257

epidural, Japanese pioneer in clinical use of (CO) [Matsuki], **58:** 289

epidural, rostral spread of (OA) [Bromage, Camporesi, Durant & Nielsen], **56:** 431

and fentanyl, exposure to, contractile responses of canine tracheal muscle during (OA) [Toda & Hatano], **53:** 93

intrathecal, actions of, studies in primate on analgetic effects associated with (OA) [Yaksh & Reddy], **54:** 457

intrathecal, CNS depression from (CO) [Davies, Tolhurst-Cleaver & James], **52:** 280

intrathecal (CO) [Perriss], **53:** 82

intrathecal, for obstetric analgesia (OA) [Baraka, Noueihid & Hajj], **54:** 136

intrathecal, for obstetric analgesia, more experience with (CO) [Mok & Tsai], **55:** 481

intrathecal, in obstetrics (CO) [Crawford], **55:** 487

intrathecal, neurologic depression after (CR) [Paulus, Paul & Munson], **54:** 517

intravenous, pharmacokinetics of, in patients anesthetized with enflurane-nitrous oxide (OA) [Murphy & Hug], **54:** 187
and nalbuphine, analgesic and respiratory depressant activity of, compared (OA) [Gal, DiFazio & Moscicki], **57:** 367
-N_2O anesthesia, and fentanyl-N_2O anesthesia, human cardiovascular responses to endotracheal intubation during (CR) [Bennett & Stanley], **52:** 520
pain control with epidural injection of (CR) [Chayen, Rodick & Borvine], **53:** 338
pharmacokinetics of, injected intravenously into anesthetized dog (OA) [Hug, Murphy, Rigel & Olson], **54:** 38
plasma, CSF and, after epidural and intrathecal application (CO) [Jergensen, Andersen & Engquist], **55:** 714
respiratory depression and psychomotor effects caused by, physostigmine as antagonist of (OA) [Bourke, Rosenberg & Allen], **61:** 523
respiratory effects of, after abdominal surgery (OA) [Clergue, Montembault, Despierres, Ghesquiere, Harari & Viars], **61:** 677
segmental effect of, injected into epidural space in man (CR) [Asari, Inoue, Shibata & Soga], **54:** 75
serum levels following epidural administration of, and correlation with relief of postsurgical pain (OA) [Weddell & Ritter], **54:** 210
sulfate, epidural, effective use of, for postoperative orthopedic pain (CR) [Ebert & Varner], **53:** 257
withdrawal, opiate withdrawal syndrome following (CR) [Tung, Tenicela & Winter], **53:** 340
and muscle relaxants, histamine release by, in humans (MI) [Moss & Rosow], **59:** 330
nalbuphine
cardiovascular effects of, in patients with coronary or valvular heart disease (OA) [Lake, Duckworth, DiFazio, Durbin & Magruder], **57:** 498
and droperidol, for local standby sedation (CO) [Klein], **58:** 397
and morphine, analgesic and respiratory depressant activity of, compared (OA) [Gal, DiFazio & Moscicki], **57:** 367
opioid
in anesthesia, use in cardiovascular anesthesia (RA) [Bovill, Sebel & Stanley], **61:** 731
intrathecal and epidural administration of (MI) [Cousins & Mather], **61:** 276
pharmacokinetic aspects of (OA) [Nordberg, Hedner, Mellstrand & Dahlstrom], **58:** 545
and respiratory depression, effects of, on sulfobromophthalein disposition in rats (OA) [Hurwitz & Fischer], **60:** 537
spinal opiates
central action of (CO) [Bahar, Orr & Dundee], **55:** 334
nitrous oxide
and naloxone and its analeptic effect (CO) [Gillman & Lichtigfeld], **58:** 287
prolonged exposure to, decrease, opiate receptor density in rat brain stem (OA) [Ngai & Finck], **57:** 26
nonnarcotic
aspirin
and catheter size (CO) [Cohen & Bedford], **52:** 282
seizures
fentanyl-induced, activate subcortical brain metabolism (OA) [Tommasino, Maekawa & Shapiro], **60:** 283
spinal action of (RA) [Kitahata & Collins], **54:** 153
sufentamil
effects of, on regional cerebral glucose utilization in rats (OA) [Young, Smith, Greenberg, Reivich & Harpl], **61:** 564
pharmacokinetics of, in surgical patients (OA) [Bovill, Sebel, Blackburn, Oei-Lim & Heykants], **61:** 502
Analytical studies, *See under* Anesthesia, studies
Analyzers, *See under* Equipment
Anaphylactoid reaction, *See under* Allergy; Complications
Anaphylatoxins, *See under* Mediators
Anatomy
airway
abduction of the vocal cords and (CO) [Fink], **52:** 95
deviation of, with cervical spine disease in erosive polyarticular arthritis (OA) [Keenan, Stiles & Kaufman], **58:** 441
brachial plexus
sheaths, functional (OA) [Thompson & Rorie], **59:** 117
celiac plexus
improved technique for alcohol neurolysis of (CR) [Singler], **56:** 137
epidural space
procedure for measuring length of catheter in (CO) [Jawalekar & Santos], **57:** 67
rostral spread of epidural morphine in (OA) [Bromage, Camporesi, Durant & Nielsen], **55:** 431
larynx
abduction of the vocal cords and (CO) [Fink], **52:** 95
Anemia, *See under* Blood; Complications
Anesthesia
and analgesia, need for clearer distinction between, in relation to opiate system (CO) [Gillmann & Footerman], **54:** 524
balanced, atracurium in surgical patients receiving (OA) [Sokoll, Gergis, Mehta, Ali & Lineberry], **58:** 450
cardiac
for coronary artery bypass surgery, influence of propranolol plasma levels on hemodynamics during (OA) [Sill, Nugent, Moyer, Torres, Schaff & Tinker], **60:** 455
in coronary-artery operations, preoperative stellate-ganglion blockade to prevent hypertension following (CO) [Estafanous, Fouad & Tarazi], **52:** 454
hypotension secondary to air trapping and, treated with expiratory flow retard (CR) [Weng, Smith, Graybar & Kirby], **60:** 350
in Kawasaki disease (CR) [McNiece & Krishna], **58:** 269
preoperative invasive monitoring in, and coronary-artery disease (CO) [Gardner, Parker & Wong], **52:** 525
pediatric
successful venous catheter placement in, from peripheral subcutaneous veins in children (CO) [Klein & Rudd], **52:** 447
for pulmonary thromboendarterectomy (CR) [Brown, Bodary & Kirby], **61:** 197
use of H_1 and H_2 histamine antagonists with morphine anesthesia in: double-blind study (OA) [Phildin, Moss, Akins, Rosow, Kono, Schnieder, VerLee & Savarese], **55:** 292
cardiopulmonary bypass
hypoxemia following (CR) [Byrick, Kolton, Hart & Forbath], **53:** 172
cardiothoracic
ketamine in (RA) [White, Way & Trevor], **56:** 119
cardiovascular complications during, in chronic spinal cord injured patients (MI) [Schonwald, Fish & Perkash], **55:** 550
cardiovascular
and adequate rewarming during cardiopulmonary bypass, rectal temperature is best indicator of (CO) [Azar], **55:** 189
in canine model of acute coronary artery stenosis: effects of deliberate hypotension (OA) [Hickey, Verrier, Baer, Vlahakes, Fein & Hoffman], **59:** 226
for cardiopulmonary bypass, central venous catheter placement for (CO) [Watson], **53:** 86

for cardiopulmonary bypass, CO_2 monitoring during (CO) [Jaffe & Bernhart], **56:** 485
for cardiopulmonary bypass, in man, hypothermia after (CO) [Karis], **56:** 233
for cardiopulmonary bypass, in man, hypothermia after (CO) [Crawford], **56:** 234
for cardiopulmonary bypass, monitoring during (CO) [Granwehr], **55:** 338
for coronary artery bypass grafts, ECG changes with papaverine injection into (CO) [Mahomed, Moorthy, Brown & King], **61:** 350
for coronary artery bypass surgery, effects of digoxin on myocardial oxygen supply and demand following (OA) [Sethna, Moffitt, Gary, Bussell, Raymond, Conklin, Shell & Matloff], **56:** 356
for coronary artery surgery, comparison of sufentanil-O_2 and fentanyl-O_2 for (OA) [de Lange, Boscoe, Stanley & Pace], **56:** 112
in coronary artery bypass, preoperative cessation of smoking and pulmonary complications in (CR) [Warner, Divertie & Tinker], **60:** 380
in coronary artery disease, myocardial blood flow and oxygen consumption during (OA) [Sonntag, Larsen, Hilfiker, Kettler & Brockschnieder], **56:** 417
fentanyl-induced truncal rigidity during (CR) [Jaffe & Ramsey], **58:** 562
fentanyl-oxygen, for aortocoronary bypass operation, hemodynamic changes during (OA) [Waller, Hug, Nagle & Craver], **55:** 212
hemodynamic response to diazepam during (CR) [Dauchot, Staub, Berzina, Heeckeren, Mackay & Sirvaitis], **60:** 499
and hemodynamics and histamine release during induction with sufentanil or fentanyl (CR) [Rosow, Philbin, Keegan & Moss], **60:** 489
high-dose fentanyl, effects of, on electroencephalogram (OA) [Sebel, Bovill, Wauquier & Rog], **55:** 203
high-dose fentanyl in, hemodynamic changes prior to and after sternotomy in patients anesthetized with (CR) [Edde], **55:** 444
inadvertent carotid cannulation during, another sign of (CO) [Dalal & Patel], **55:** 487
morphine and fentanyl in, histamine release during (OA) [Rosow, Moss, Philbin & Savarese], **56:** 93
nalbuphine in, in patients with coronary or valvular heart disease (OA) [Lake, Duckworth, DiFazio, Durbin & Magruder], **57:** 498
narcotic, in eighties (EV) [Lowenstein & Philbin], **55:** 195
opioid analgesics in (RA) [Bovill, Sebel & Stanley], **61:** 731
pancuronium in, effects of cardiopulmonary bypass and hypothermia on (OA) [d'Hollander, Duvaldestin, Henzel, Nevelsteen & Bomblet], **58:** 505
perceptions and perspectives (SA) [Keats], **60:** 467
percutaneous central venous cannulation in, hazard of (CO) [Watson & Simpson], **60:** 524
preoperative nifedipin treatment and, in coronary heart disease (CO) [Skarvan], **59:** 362
sodium nitroprusside in, postoperative renal effects of (OA) [Maseda, Hilberman, Derby, Spencer, Stinson & Myers], **54:** 284
in Wolff-Parkinson-White syndrome (OA) [Gomez-Arnau, Marquez-Montes & Avello], **58:** 307

cardioversion
elective, thiopental-lidocaine combination for (CO) [White], **60:** 511

closed circuit
economy is not major benefit of (CO) [Edsall], **54:** 258

complications
analysis of: considerations for prevention and detection of (OA) [Cooper, Newbower & Kitz], **60:** 34
aspiration, effectiveness of sodium citrate as antacid in (CR) [Gibbs, Spohr & Schmidt], **57:** 44
associated with intraoperative exchanges of anesthesia personnel (SA) [Cooper, Long, Newbower & Philip], **56:** 456
and cardiac risk index (CO) [Jeffrey, Kunsman, Cullen & Brewster], **60:** 608
and cardiac risk index (CO) [Pace], **60:** 607
in Ehlers-Danlos syndrome (CR) [Dolan, Sisko & Ritey], **52:** 266
obstetric, effectiveness of sodium citrate as antacid in (CR) [Gibbs, Spohr & Schmidt], **57:** 44
and prospective evaluation of cardiac risk index (CR) [Jeffrey, Kunsman, Cullen & Brewster], **58:** 462
deaths related to (CO) [Engel], **52:** 93
deaths related to (CO) [Hamilton], **52:** 93
deaths related to (CO) [Keats], **52:** 93
deaths related to (CO) [Turnbull, Smith & Banting], **52:** 93

dental
exposure to anesthetic gases and health problems by dental workers during (EV) [Michenfelder], **53:** 1
halothane and gingival retraction cord, fatality associated with (CR) [Hilley, Milam, Giescke & Giovannitti], **60:** 587
and intraoperative death, did anesthetic mismanagement contribute to? (CO) [Giesecke & Hilley], **61:** 792
and intraoperative death, did anesthetic mismanagement contribute to? (CO) [Johnson], **61:** 791
and intraoperative death, did anesthetic mismanagement contribute to? (CO) [Marshall], **61:** 792
and intraoperative death, did anesthetic mismanagement contribute to? (CO) [Sievenpiper & Fallacaro], **61:** 791
nitrous oxide
neurotoxicity of, studies of, in man and rat (OA) [Dyck, Grina, Lambert, Calder, Oviatt, Rehder, Lund & Skau], **53:** 205

depth
awareness during surgery and (EV) [Blancher], **61:** 1
effect of, on cardiac acceleration response to somatic nerve stimulation in dogs (OA) [Kissin & Green], **61:** 708
halothane anesthesia, and human cortical visual evoked response (OA) [Uhl, Squires, Bruce & Starr], **53:** 273
and intraoperative seareness during high-dose fantanyl-oxygen anesthesia (CR) [Hilgenberg], **54:** 341
and neurologic changes during awakening from anesthesia (OA) [Rosenberg, Clofine & Bialik], **54:** 125
and recall of surgery for major trauma (OA) [Bogetz & Katz], **61:** 6

diagnostic
and causalgia of vascular etiology following abdominal injury (CR) [Szeinfeld, Saucedo & Pallares], **57:** 46
in ulnar artery occlusion stimulating reflex sympathetic dystrophy (CR) [Speilman, Ghia, Teeple & Mandell], **54:** 343

duration
and neurologic changes during awakening from anesthesia (OA) [Rosenberg, Clofine & Bialik], **54:** 125
prolonged, for reattachment of limb, malignant hyperthermia during (CR) [Murphy, Conlay, Ryan & Roberts], **60:** 149

electroshock
transient large upright T-wave on electrocardiogram during (CR) [Graybar, Goethe, Levy, Phillips, Youngberg & Smith], **59:** 567
general, and chest wall (MI) [Schmid & Rehder], **55:** 668

geriatric
and solubility of volatile anesthetics in blood (OA) [Lerman, Gregory, Willis & Eger], **61:** 139
gynecologic
radial hysterectomy, air embolism during (CR) [Naulty, Meisel, Datta & Ostheimer], **57:** 420
history
Gill-Merrill expedition (SA) [Humble], **57:** 519
increasing halothane concentration in, in dog, regional ischemic ventricular dysfunction in myocardium supplied by narrowed coronary artery with (OA) [Lowenstein, Foex, Francis, Davies, Yusuf & Ryder], **55:** 349
induction, rapid sequence, thiopental, ketamine, and midazolam compared for (OA) [White], **57:** 279
inhalation analgesia for vaginal delivery, neonatal behavioral effects of (OA) [Stefani, Hughes, Shnider, Levinson, Abboud, Henriksen, Williams & Johnson], **56:** 351
intravenous regional
with lidocaine, sensitivity to pain predicts CNS sensitivity to (CR) [Korbon, Rowlingson & DiFazio], **61:** 767
liaison service (CO) [Schotz], **52:** 190
management, "ATTENDING" computer system in (SA) [Miller], **58:** 362
mortality (CO) [Baraka], **52:** 283
and muscle paralysis, thoracic gas volume measured by body plethysmography during (OA) [Hedenstierna, Jarnberg & Gottlieb], **55:** 439
neonatal
and solubility of volatile anesthetics in blood (OA) [Lerman, Gregory, Willis & Eger], **61:** 139
and neuroradiology, metrizamide in (CO) [Pyles & Pashayan], **58:** 590
neurosurgical
acute sinus arrhythmia during, as indicator of brain-stem irritation (CR) [Drummond & Todd], **60:** 232
and air embolism arising from burr holes (CR) [Edelman & Wingard], **53:** 167
air embolism in, and placement of central venous catheters (CO) [Campkin], **56:** 406
air embolism in, two-dimensional transesophageal echocardiography in (CR) [Cucchiara, Nugent, Seward & Messick], **60:** 353
atrial pressures in seated position during (OA) [Perkins-Pearson, Marshall & Bedford], **57:** 493
balloon catheter for recovery of embolized air during (CO) [Diaz], **57:** 66
balloon catheter increases air capture during (CO) [Bunegin & Albin], **57:** 66
bupivacaine injection into scalp in, blood levels in, with and without epinephrine (CR) [Colley & Heavner], **54:** 81
cerebrospinal fluid drainage during craniotomy, subdural pneumocephalus resulting from (CR) [Grundy & Spezler], **52:** 269
in cesarean section following ruptured cerebral aneurysm and neuroresuscitation (CR) [Kofke, Wuest & Ginnis], **60:** 242
for clinical suboccipetal craniotomy, air embolism in children undergoing (CR) [Cucchiara & Bowers], **57:** 338
for combined cesarean section and clipping of intracerebral aneurysm (CR) [Lennon, Sundt & Gronert], **60:** 240
and comparison of effects of positive end-expiratory pressure and jugular venous compression on canine cerebral venous pressure (OA) [Toung, Ngeow, Long, Rogers & Traystman], **61:** 169
craniotomym nitrous oxide and prevention of tension pneumocephalus after (CO) [Friedman], **58:** 196
detection and treatment of venous air embolism during, use of pulmonary-artery catheter for (OA) [Marshall & Bedford], **52:** 131
discussions of, by Society for Neurosurgical Anesthesia and Neurologic Supportive Care (SM), **52:** 528
and effects of cardiac output on clearance of air emboli from superior vena cava (OA) [Martin, Ashleman & Colley], **60:** 580
enflurane in, diagnostic activation epileptogenic foci by (CR) [Flemming, Fitzpatrick, Fariello, Duff, Helman & Hoff], **52:** 431
high-dose fentanyl for (CR) [Shupak, Harp, Stevenson-Smith, Rossi & Buchheit], **58:** 579
high-dose methohexital in, in humans, hemodynamic consequences of (OA) [Todd, Drummond & Sang], **61:** 495
high-frequency positive-pressure ventilation during, effects of, on intracranial pressure and brain surface movement in cats (OA) [Todd, Toutant & Shapiro], **54:** 496
and hypercoagulability in patient with brain tumor (CR) [Weinberg, Phillips, Twersky, Cotrell & Braunstein], **61:** 200
hypothermia in pregnancy (CR) [Stange & Halldin], **58:** 460
increase in intracranial pressure during suctioning in—stimulation vs. rise in $PaCO_2$ (CR) [Fisher, Frewen & Swedlow], **57:** 416
internal jugular vein function after Swan-Ganz catheterization in (CR) [Perkins, Cail, Bedford, Elinger & Buschi], **61:** 456
intravenously administered lidocaine prevents intracranial hypertension during endotracheal suctioning in (CR) [Donegan & Bedford], **52:** 516
isoflurane in, cerebrospinal fluid pressure during (OA) [Adams, Cucchiara, Gronert, Messick & Michenfelder], **54:** 97
isoflurane versus halothane in (CO) [Azar & Thiagarajah], **61:** 786
isoflurane versus halothane in (CO) [Todd & Drummond], **61:** 787
naloxone
hypertension, and ruptured cerebral aneurysm during (CO) [Estilo & Cottrell], **54:** 352
neonatal sepsis presenting as delayed emergence from general anesthesia (CR) [Hinkle], **57:** 412
and nitrous oxide and intraoperative tension pneumocephalus (CO) [Frost], **58:** 197
and paradox of paradoxic air embolism (CO) [Albin], **61:** 222
in pneumocephalus (CO) [Wolf & Albin], **53:** 525
positioning right atrial catheter in, model for reappraisal (OA) [Bunegin, Albin, Helsel, Hoffman & Hug], **55:** 343
prevention of tension pneumocephalus during (CO) [Toung, Donham & Campbell], **57:** 65
in rapid drainage of cerebrospinal fluid in patient with hydrocephalus, cardiac arrest following (CR) [Alfery, Shapiro & Gragnon], **52:** 0
safety of sitting position in (CO) [Cucchiara], **61:** 790
and sights and sounds of air (EV) [Albin], **58:** 113
in sitting position, patent foramen ovale (CO) [Fischler, Vourc'h, Dubourg & Bourdarias], **60:** 83
and somatosensory evoked potential changes in position-related brain stem ischemia (CR) [McPherson, Szymanski & Rogers], **61:** 88
succinylcholine-induced hyperkalemia in, in patients with ruptured cerebral aneurysms (CR) [Iwatsuki, Kuroda, Amaha & Iwatsuki], **53:** 64
in surgical procedures involving the posterior fossa, cardiores-

piratory and cranial-nerve sequelae of (CR) [Artru, Cucchiara & Messick], **52:** 83
tension pneumocephalus and (CO) [Marschall], **58:** 301
transesophageal Doppler for detection of air embolism during (OA) [Martin & Colley], **58:** 117
transesophageal echocardiography for detection of air embolism during (OA) [Furuya, Suzuki, Okumura, Kishi & Uekuji], **58:** 124

obstetric
antacid therapy in (CO) [Roberts & Shirley], **53:** 83
antacid therapy in, pulmonary aspiration following (CO) [Bassell & Gatha], **52:** 450
Apgar score following epidural anesthesia for cesarean section (OA) [Datta, Corke, Alper, Brown, Ostheimer & Weiss], **52:** 48

articles on
additional studies required to determine validity of statements in (EV) [Michenfelder], **56:** 337
and Bicitra as preoperative antacid (CR) [Gibbs & Banner], **61:** 97
bupivacaine in, cardiotoxicity and (CO) [Conklin & Ziadlourad], **61:** 625
and cause and prevention of maternal aspiration (CO) [Gibbs, Rolbin & Norman], **61:** 111
for cesarean section (OA) [Datta, Corke, Alper, Brown, Ostheimer & Weiss], **52:** 48
in cesarean section, dopamine for treatment of spinal hypotension during (CR) [Clark & Brunner], **53:** 514
cesarean section (RA) [Datta & Alpert], **53:** 142

cesarean section
in achondroplastic dwarfs (CR) [Cohen], **52:** 264
anesthetic management for, in osteogenesis imperfecta (CR) [Cunningham, Donnelly & Comerford], **61:** 91
d-tubocurarine and succinylcholine in (CO) [Sellers & Goddard], **60:** 506
epidural morphine following (OA) [Cohen & Woods], **58:** 500
epinephrine with therapeutic dose of bupivacaine in (CO) [Albright], **61:** 217
epinephrine with therapeutic dose of bupivacaine in (CO) [Marx], **61:** 218
general anesthesia for: adequate fetal oxygenation vs. maternal awareness during operation (CO) [Mark & Poppers], **56:** 405
malignant hyperthermia triggered by cyclopropane during (CR) [Lips, Newland & Dutton], **56:** 144
does metoclopramide decrease volume of gastric contents in patients undergoing? (CR) [Cohen, Jasson, Talafre, Chanvelot-Moachon & Barrier], **61:** 604
reduced volume dose of sodium citrate prior to (CO) [Stoops, Ravindran & Viegas], **58:** 201
studies of pharmacokinetics and plasma binding of thiopental at (OA) [Morgan, Blackman, Paull & Wolf], **54:** 468
test doses for epidural anesthesia, use and abuse of (CO) [Abouleish & Bourke], **61:** 344
test doses for epidural anesthesia, use and abuse of (CO) [Moore & Batra], **61:** 345
thiopental for (CO) [Mark & Costin], **57:** 547
type and screen for (CR) [Reisner], **58:** 476
challenge to use of *d*-tubocurarine prior to succinylcholine in (CO) [Crawford], **57:** 549
chloroprocaine vs. bupivacaine for lumbar epidural analgesia for elective cesarean section (OA) [James, Dewan, Floyd, Wheeler, Grant, Rhyne & Westmoreland], **52:** 488
citrate actacids prior to, buffering capacity of (CO) [Conklin & Ziadlou-Rad], **58:** 391

domperidone
effect of, on lower esophageal sphincter tone in late pregnancy (OA) [Brock-Utne, Downing, Dimopoulos, Rubin & Moshal], **52:** 321
in early pregnancy, spread of epidural analgesia in (CR) [Fagraeus, Urban & Bromage], **58:** 184
and emergency equipment in labor suite (CO) [Boucek, Tyler, de la Vega & McKenzie], **61:** 478

epidural
block in, followed by aseptic meningoencephalitis (CR) [Neumark, Feichtinger & Gassner], **52:** 518
for cesarean section, disposition of bupivacaine following (CO) [Kuhnert, Kuhnert & Gross], **57:** 250
for cesarean section, disposition of bupivacaine following (CO) [Abouleish], **57:** 249
epinephrine does not alter human intervillous blood flow during (OA) [Albright, Jouppila, Hollmen, Houpilla, Vierola & Koivula], **54:** 131
headache following attempted (CO) [Aherling & Brodsky], **52:** 100
for labor and delivery of twins of paraplegic mother (CR) [Watson & Downey], **52:** 259
and subarachnoid block, case of unilateral analgesia following, revisited (CO) [de Rosayro], **55:** 478
and subarachnoid block in, unilateral analgesia following (CO) [Hodgkinson & Husain], **53:** 353
epidural catheters in, technique is critical variable in (CO) [Larson], **58:** 587
epidural catheters in, technique is critical variable in (CO) [Naulty], **58:** 588
errant epidural catheter in (CR) [Blass, Roberts & Wiley], **54:** 419
etidocaine in, and toxicity in adult, newborn, and fetal sheep (OA) [Morishima, Pedersen, Finster, Feldman & Covino], **58:** 342
First European Congress of (SM), **52:** 458
in full-term newborns, new neurologic and adaptive capacity scoring system for evaluation of (OA) [Amiel-Tison, Berrier, Shnider, Levinson, Hughes & Stefani], **56:** 240
and gastric emptying in labor (CO) [Nimmo], **53:** 263

halothane
requirement during pregnancy and lactation in rats (LR) [Strout & Nahrwold], **55:** 322
hypothermia in pregnancy (CR) [Stange & Halldin], **58:** 460
inadvertent dural perforation with epidural injection for, collapse after (CO) [Collier], **57:** 427
intrathecal morphine for, more experience with (CO) [Mok & Tsai], **55:** 481
intrathecal morphine in (CO) [Crawford], **55:** 487
intrathecal morphine in (CO) [Perriss], **53:** 82
intrathecal morphine, in parturient with single ventricle (CR) [Ahmad, Hawes, Dooley, Faure & Brunner], **54:** 515
intrathecal morphine [Baraka, Noueihid & Hajj], **54:** 136
and intubation, aspiration prophylaxis in midtrimester abortions (CO) [Dehring & McDonald], **61:** 223
and intubation, aspiration prophylaxis in midtrimester abortions (CO) [White], **61:** 224
ketamine in (RA) [White, Way & Trevor], **56:** 119
late-pregnant women, cardiopulmonary resuscitation of (CO) [Marx], **56:** 156

lumbar
dural puncture in, subdural hematomas after (CR) [Edelman & Wingard], **52:** 166

magnesium sulfate
in prevention of succinylcholine-induced fasciculations in toxemic parturients (CR) [DeVore & Asrani], **52:** 76
management of difficult airway in (CO) [Millar], **52:** 523

maternal deaths associated with, statistics on, and need for anesthesiologists trained in epidemiology (CO) [Peterson, Rubin & Tyler], **53:** 263
measurement of catheter in epidural space in (CO) [Jawalekar & Santos], **57:** 67
meperidine in, duration of effect of, on neonatal neurobehavior (CR) [Hodgkinson & Husain], **56:** 51
metoclopramide in, gastric volume and (OA) [Wyner & Cohen], **57:** 209
modified uterine displacement device in (CO) [Elliott, King & Moore], **57:** 146
morphine and bupivacaine for continuous epidural analgesia in labor, double-blind comparison of (OA) [Writer, James & Wheeler], **54:** 215
and neonatal neurologic and adaptive capacity score (NACS) (EV) [Tronick], **56:** 338
and neonatal neurologic and adaptive capacity score (NACS) (CO) [Amiel-Tison, Barrier, Shnider, Levinson, Hughes & Stefani], **56:** 492
nitrous oxide
and fentanyl, effects of, on fetal heart-rate variability intra- and postoperatively (CR) [Johnson & Colley], **52:** 429
oxytocic drugs have different cardiovascular effects during (CO) [Barros], **57:** 70
pain control with epidural injection of morphine and (CR) [Chayen, Rodick & Borvine], **53:** 338
in paraplegic parturient, hypertension in (CO) [Abouleish], **53:** 348
and patient acceptance of oral antacid therapy during labor (CO) [Dewan, Floyd, Grant, James, Wheeler, Westmoreland & Rhyne], **52:** 526
for patient with long Q-T syndrome, perioperative anesthesia management in (CR) [Brown, Liberthson, Ali & Lowenstein], **55:** 586
in patient with lumbar disc disease, use of two epidural catheters to provide analgesia of unblocked segments in (CR) [Schachner & Abram], **56:** 150
patients and their neonates, plasma levels of 2-chloroprocaine in, after epidural anesthesia (OA) [Kuhnert, Kuhnert, Prochaska & Gross], **53:** 21
plasma levels of 2-chloroprocaine in, and lack of sequelae following inadvertent intravenous injection (CO) [Gross, Kuhnert, Kuhnert & Pimental], **54:** 173
post-cesarean section, pain relief and plasma concentrations from epidural and intramuscular morphine in (OA) [Youngstrom, Cowan, Sutheimer, Eastwood & Yu], **57:** 404
and postpartum perioperative risk of aspiration pneumonia (CR) [James, Gibbs & Banner], **61:** 756
potential interactions between cimetidine and amine local anesthetics in (CO) [Hodgkinson], **60:** 508
potential interactions between cimetidine and amine local anesthetics in (CO) [Moir & Morland], **60:** 507
pre-induction, particulate antacids and (CO) [Gibbs & Banner], **58:** 592
pre-induction, particulate antacids and (CO) [Eyler & Zaccari], **58:** 591
prolonged chloroprocaine epidural block in postpartum patient with abnormal pseudocholinesterase (CR) [Kuhnert, Philipson, Pimental & Kuhnert], **56:** 477
prophylaxis against acid aspiration syndrome during (CO) Gillett (OA) [Watson & Langford], **60:** 525
pudendal block in, neurobehavioral effects of bupivacaine, mepivacaine, and 2-chloroprocaine used for [Merkow, McGuinness, Erenberg & Kennedy], **52:** 309
and rare types of cholinesterase in two parturients (CO) [Abouleish, MacMurdo, Caffo & Lubin], **55:** 478
regional anesthesia is preferable for premature fetus (CO) [Finucane & Bramwell], **54:** 435
and shivering during epidural analgesics in women in labor (CR) [Webb, James & Wheeler], **55:** 708
should precurarization be used in? (CO) [Conklin], **60:** 384
(SM) [James], **56:** 335
spinal
for cesarean section, method of ephedrine administration and nausea and hypertension during (CR) [Datta, Alper, Ostheimer & Weiss], **56:** 68
study of disposition of bupivacaine in mother, fetus, and neonate following epidural anesthesia for cesarean section, use of selected ion monitoring technique in (OA) [Kuhnert, Stitts & Gross], **55:** 611
and Swan-Ganz catheter complication following in patient with Eisenmenger's syndrome (CR) [Devitt, Noble & Byrick], **57:** 335
and toxicity and distribution of lidocaine in nonasphyxiated and asphyxiated baboon fetuses (OA) [Morishima & Covino], **54:** 182
two new drugs improve anesthetic management in (CO) [Downing, Brock-Utne & Mankowitz], **55:** 334
and uterine vasculature of gravid ewes, effects of nitroglycerin and nitroprusside on (OA) [Wheeler, James, Meis, Rose, Fishburne, Dewan, Urban & Greiss], **52:** 390
with vecuronium and pancuronium, effects of, during cesarean section (OA) [Dailey, Fisher, Shnider, Baysinger, Shinohara, Miller, Abboud & Kim], **60:** 569
ophthalmologic
effect of succinylcholine self-taming on intraocular pressure during, controlled study of (CR) [Meyers, Singer & Otto], **53:** 72
for retinal surgery in prone position (CO) [Wollman & Neuman], **61:** 109
orthopedic
and airway emergency in patient during CO_2 arthroscopy (CO) [Shupak, Shuster & Funch], **60:** 171
continuous interscalene brachial plexus block for surgical operations on hand (CO) [Vatashsky & Aronson], **53:** 356
Esmarch bandage in, justification of? (CO) [Mihic], **60:** 526
hazards of laser degradation of methylmethacrylate during (CO) [Kroll, Morris & Norton], **61:** 115
in knee replacement without tourniquet, hemodynamic effects of prosthesis insertion during (CR) [AUTHOR NEEDED], **52:** 0
new device in, increases hazards of methylmethacrylate bone cement (CO) [Westerlund], **54:** 90
pentolinium and propranolol in, during surgical correction of scoliosis, hormonal and hemodynamic changes induced by (OA) [Knight, Lane, Nicholls, Tait, Nahrwold, Hensinger & Cohen], **53:** 127
principles of management of, and respiratory and cardiovascular functions in scoliosis (RA) [Kafer], **52:** 339
otolaryngologic
for laser microlaryngeal surgery, protection of endotracheal tubes during (CO) [Ngeow & Kashima], **55:** 710
outpatient
and antiemetic efficacy of metoclopramide (CO) [Dundee], **61:** 229
antiemetic efficacy of droperidol and metoclopramide with (CR) [Cohen, Woods & Wyner], **60:** 67
heparin-lock for, in pediatric radiation therapy (CR) [Rodarte], **56:** 316
and intubation, aspiration prophylaxis in midtrimester abortions (CO) [Dehring & McDonald], **61:** 223

and intubation, aspiration prophylaxis in midtrimester abortions (CO) [White], **61:** 224
ketamine in (RA) [White, Way & Trevor], **56:** 119
management of children for surgery (CO) [Beeby & Worthen], **61:** 638
neurologic state and psychomotor function following (CR) [Azar, Karambelkar & Lear], **60:** 347
pediatric, residents' attitudes toward parents' presence during induction of (CR) [Hannallah, Abramowitz, Oh & Ruttimann], **60:** 598
pediatric surgery, efficacy of oral premedication for (CR) [Brzustowicz, Nelson, Betts, Rosenberry & Swedlow], **60:** 475
residual effects of, evaluation of instrumented force platform as test to measure (OA) [Korttila, Ghoneim, Jacobs & Lakes], **55:** 625
for short surgery, volatile anesthetics for (CO) [White], **60:** 605
for short surgery, volatile anesthetics for (CO) [Sosis], **60:** 605
should not be limited to ASA Class I patients (CO) [Berry], **60:** 620
zomepirac and codeine compared as analgesic premedicants for (CR) [Dunn, Morison, Fargas-Babjak & Goldsmith], **58:** 265

pediatric
and in adults, pharmacokinetics and pharmacodynamics of *d*-tubocurarine in (OA) [Fisher, O'Keefe, Stanski, Cronnelly, Miller & Gregory], **57:** 203
and assessment of risk factors related to acid aspiration syndrome in pediatric patients-gastric *p*H and residual volume (CR) [Cote, Goudsouzian, Piu, Dedrick & Szyfelbein], **56:** 70
assessment of neuromuscular function in infants following (OA) [Crumrine & Yodlowski], **54:** 29
and bright room light and retrolental fibroplasia (CO) [Flynn], **61:** 785
and bright room light and retrolental fibroplasia (CO) [Warshauer], **61:** 785
caudal anesthesia in, for early onset myotonic dystrophy (CR) [Alexander, Wolf & Ghia], **55:** 597
child abuse in (EV) [Betts & Nicholson], **58:** 115
in child with glycogen-storage disease, hyperthermia and ketoacidosis during (CR) [Edestein & Hirshman], **52:** 90
and clinical pharmacology of edrophonium in infants and children (OA) [Fisher, Cronnelly, Sharma & Miller], **61:** 428
critically ill newborns, automated oscillometric technique for estimating mean arterial pressure in (CR) [Kimble, Darnall, Yelderman, Ariagno & Ream], **54:** 423
delayed awakening from, and child abuse (CR) [Ott, Pollack, Riddick, Reisch & Epstein], **58:** 178
development of bronchial obstruction with secondary lobar emphysema during (CR) [Spielman, Sprague, Mann & Mandell], **56:** 61
difficult, fiberoptic bronchoscope in (CO) [Ovassapian, Dykes & Yelich], **56:** 412
DiGeorge syndrome (CR) [Flashburg, Dunbar, August & Watson], **58:** 479
Dinmap adaptation for neonatal blood pressure determination during (CO) [Zmyslowski & Lena], **58:** 583
dose response to intramuscular succinylcholine in (CR) [Liu, DeCook, Goudsouzian, Ryan & Liu], **55:** 599
and dose-response effects of preanesthetic oral cimetidine on gastric *p*H and volume in children (OA) [Goudsouzian, Cote, Liu & Dedrick], **55:** 533
in Duchenne muscular dystrophy, malignant hyperthermia during (CR) [Brownell, Paasuke, Elash, Fowlow, Seagram, Diewold & Friesen], **58:** 180
and effect of paralysis on oxygen consumption in normoxic children after cardiac surgery (OA) [Palmisano, Fisher, Willis, Gregory & Ebert], **61:** 518
endotracheal intubation in, modified laryngoscope for (CO) [Hencz], **53:** 84
and epidural morphine analgesia in children (CR) [Shapiro, Jedeikin, Shalev & Hoffman], **61:** 210
epinephrine-halothane interactions during (OA) [Karl, Swedlow, Lee & Downes], **58:** 142
epinephrine-halothane interaction in, versus adults (CO) [Karl], **60:** 77
epinephrine-halothane interaction in, versus adults (CO) [Pepple], **60:** 76
episodic complete airway obstruction in, in undiagnosed obstructive sleep apnea (CR) [Weinberg, Kravath, Phillips, Mendez & Wolf], **60:** 356
formulas for calculating fluid maintenance requirements in (CO) [Oh], **53:** 351
and gas scavenging for laser surgery of infant subglottic stenosis (CR) [Rita, Seleny & Holinger], **58:** 191
general, in unpremedicated children, dose response of intravenous thiopental for induction of (CR) [Cote, Goudsouzian, Liu, Dedrick & Rosow], **55:** 703
halothane in, and epinephrine during, for closure of cleft palate (CR) [Ueda, Hirakawa & Mae], **58:** 574
halothane in, baroresponse and cardiovascular depression by (CO) [Friesen], **58:** 387
halothane in, baroresponse and cardiovascular depression by (CO) [Ware, Robinson & Gregory], **58:** 387
halothane in, effect of, on baroresponse of adult and baby rabbits (OA) [Wear, Robinson & Gragory], **56:** 188
hazard of continuous flush systems for vascular pressure monitoring during (CR) [Morray & Todd], **58:** 187
for high-dose total body irradiation in children (CR) [Lo, Buckley, Kim & Lopez], **61:** 101
hypoglycemia-induced seizures in infant during (CR) [Maze & Samuels], **52:** 77
inhibitory effect of intravenous *d*-tubocurarine and oral dantrolene on halothane-succinylcholine-induced myoglobinemia in (CR) [Asari, Inoue, Maruta & Hirose], **61:** 352
intraoperative hypoxia and hypotension during, caused by gastrografin-induced hypovolemia (CR) [Maneksha, Betta, Zawin & Poppers], **61:** 454
for laryngeal surgery with resectoscope, endotracheal tube ignition during (CR) [Rita & Seleny], **56:** 60
in management of tracheal atresia with tracheoesophageal fistulas (CR) [Alfrey, Ward, Plumer & Lynch], **53:** 242
management of children for surgery (CO) [Beeby & Worthen], **61:** 638
modification of pediatric laryngoscope for (CO) [Moynihan], **56:** 330
neonatal sepsis presenting as delayed emergence from general anesthesia (CR) [Hinkle], **57:** 412
neonates and young infants, timolol and postoperative apnea in (CO) [Bailey], **61:** 622
neuromuscular blockade reversal in neonates and infants in leg lift as clinical sign (CR) [Mason & Betts], **52:** 441
neuromuscular effects of vecuronium in (OA) [Fisher & Miller], **58:** 519
new endotracheal tube in, incompatibility of, with existing fittings (CO) [Witt & Manawadu], **52:** 280
new laryngoscope in (CO) [Matsuki], **57:** 556
new method for induction (CO) [Lisman], **60:** 168
outpatient, psychological effects of, on five to eight-year-old children (OA) [Morgan, Furman & Kikmen], **55:** 386
outpatient surgery, efficacy of oral premedication for (CR) [Brzustowicz, Nelson, Betts, Rosenberry & Swedlow], **60:** 475

percutaneous central venous cannulation in, hazard of (CO) [Watson & Simpson], **60:** 524
perioperative management of newborn pharyngeal teratomas (CR) [Diaz, Stedman & LeTard], **61:** 608
personnel, hepatitis B markers in (CO) [Friesen], **61:** 622
personnel, hepatitis B markers in (CO) [Berry, Isaacson & Kane], **61:** 622
and pet euthanasia, terminology in, care in use of (CO) [Simmonds], **53:** 526
and potential deficiencies in modifying the Dinamap® for use in neonate (CO) [Kochansky], **60:** 171
premature infants, additional causes of postoperative respiratory complications in (CO) [Fisher, Robinson & Gregory], **57:** 428
premature infants are more prone to complications following minor surgery than are term infants (CR) [Steward], **56:** 304
rebreathing bags in, compliances of (CR) [Stone & Graves], **53:** 434
rectal methohexital premedication for, a dose-comparison study (CR) [Liu, Goudsouzian & Liu], **53:** 343
residents' attitudes toward parents' presence during induction of (CR) [Hannallah, Abramowitz, Oh & Ruttimann], **60:** 598
and respiratory depression following orally administered flunitrazepam for preanesthetic medication (CR) [Forster, Gamulin, Morel, Weiss & Rouge], **61:** 597
retinal hemorrhage following (CR) [Bolder & Norton], **61:** 595
and retrolental fibroplasia (EV) [Flynn], **60:** 397
selective endobronchial blocking versus selective intubation (CO) [Dalens, Labbe & Haberer], **57:** 555
simple device for remote monitoring of respiration during (CO) [Saunders & Humphrey], **55:** 609
and small sample sizes (CO) [Lerman], **61:** 219
smoking and: preoperative abstinence and perioperative morbidity (MI) [Pearce & Jones], **61:** 756
and solubility of volatile anesthetics in blood (OA) [Lerman, Gregory, Willis & Eger], **61:** 139
for suboccipetal craniotomy, air embolism in children undergoing (CR) [Cucchiara & Bowers], **57:** 338
term infants, preterm infants are more prone to complications following minor surgery than (CR) [Steward], **56:** 304
with thiopental, pharmacokinetics of (OA) [Sorbo, Hudson & Loomis], **61:** 666
thoracic, one-lung anesthesia for: new use for fiberoptic bronchoscope (CR) [Watson, Bowe & Burk], **56:** 314
and ventilatory requirements of critically ill neonates (OA) [Epstein & Hyman], **53:** 379
wasted ventilation in (CO) [Epstein], **60:** 617
perioperative
liaison service in (CO) [Schotz], **52:** 190
potency, of nitrous oxide in humans, transcutaneous cranial electrical stimulation increases (OA) [Stanley, Cazalaa, Limoge & Louville], **57:** 293
radiation therapy
pediatric, heparin-lock for repeated anesthesia in (CR) [Rodarte], **56:** 316
regional
anticoagulation following placement of epidural and subarachnoid catheters in: evaluation of neurologic sequelae (OA) [Rao & El-Etr], **55:** 618
repeated, infant undergoing, development of tolerance to ketamine in (CR) [Byer & Gould], **54:** 255
research, and trends in medical statistics (EV) [Longnecker], **57:** 73
risk
ASA PA classification is not classification of (CO) [Schwam & Gold], **57:** 68
deaths related to (CO) [Engel], **52:** 93
deaths related to (CO) [Hamilton], **52:** 93
deaths related to (CO) [Keats], **52:** 93
deaths related to (CO) [Turnbull, Smith & Banteng], **52:** 93
risk classification
for asymptomatic smokers: ASA I or II? (CO) [Bayes], **56:** 76
risk factors
and cardiac index (CO) [Pace], **60:** 607
and cardiac risk index (CO) [Jeffrey, Kunsman, Cullen & Brewster], **60:** 608
and prospective evaluation of cardiac risk index (XR) [Jeffrey, Kunsman, Cullen & Brewster], **58:** 462
studies
analytical, biases and lack of protocol conformity in (EV) [Forrest], **56:** 249
techniques
epidural
in administration of opioids (MI) [Cousins & Mather], **61:** 276
therapeutic
and causalgia of vascular etiology following abdominal injury (CR) [Szeinfeld, Saucedo & Pallares], **57:** 46
stellate ganglion block, for sudden profound hearing loss (CR) [Cook, deSantis, Plaza & Sawyer], **54:** 421
thoracic
assessment of unilateral lung function during (MI) [Baier], **52:** 280
development of bronchial obstruction with secondary lobar emphysema during (CR) [Spielman, Sprague, Mann & Mandell], **56:** 61
direct transthoracic endobrachial intubation in (CO) [Stevens], **53:** 83
one-lung ventilation during: which lung should be PEEPed? (EV) [Benumof], **56:** 161
tidal volume and PEEP effects on pulmonary oxygen exchange during (OA) [Katz, Laverne, Fairley & Thomas], **56:** 164
urologic
for transurethral resection of prostate, hyperlactatemia during, using sorbitol solution as irrigant (CO) [Johans, Rofkar, Townsend & Eggers], **52:** 374
in transurethral prostatic surgery, intraocular pressure after (CR) [Peters, Muir & Wingard], **55:** 327
volatile
enflurane
time-dependent increase in sensitivity to *d*-tubocurarine during (OA) [Stanski, Ham, Miller & Sheiner], **52:** 483
halothane
time-dependent increase in sensitivity to *d*-tubocurarine during (OA) [Stanski, Ham, Miller & Sheiner], **52:** 483
methoxyflurane
effects of, on light-induced proton uptake of rhodopsin in bovine rod outer segment disk membrane (OA) [Mashimo, Tashiro & Yoshiya], **61:** 439
volume ventilation systems for infants during (CR) [Bazaral], **54:** 240
Anesthesia induction, *See under* Induction
Anesthesia machines, *See also under* Equipment
maintenance
continuous infusion fentanyl or ketamine *versus* thiopental for outpatient surgery, comparative study (CR) [White, Dworsky, Horai & Trevor], **59:** 574
use of continuous infusion versus intermittent bolus administration of fentanyl or ketamine during (OA) [White], **59:** 294
neonatal
anesthetic requirements for halothane in (OA) [Lerman, Robinson, Willis & Gregory], **59:** 421

neurosurgical
balanced, paradoxical diuresis in some patients under (CR) [Mehta, Gergis & Sokoll], **59:** 595
in cats, brain surface protrusion during (OA) [Drummond, Todd, Toutant & Shapiro], **59:** 288
multiorificed balloon catheter ideal for (CO) [Hicks & Hummel], **59:** 261
venous air embolism is not restricted to (CO) [Albin, Babinski, Gilbert & Smith], **59:** 151
obstetric
for cesarean section in patient with acute intermittent porphyria and achondroplastic dwarfism (CR) [Bancroft & Lauria], **59:** 143
for cesarean section, neonatal breathing pattern following: epidural versus general anaesthesia (OA) [Fisher, Mortola, Smith, Fox & Weeks], **59:** 389
for cesarean section, thiopental anesthesia for: a rebuttal (OA) [Mark & Poppers], **59:** 158
cimetidine compared with antacid for safety and effectiveness in reducing gastric acidity before cesarean section (OA) [Hodgkinson, Galssenberg, Joyce, Coombs, Ostheimer & Gibbs], **59:** 86
defense of use of *d*-tubocurarine prior to succinylcholine in (CO) [Marx & Bassell], **59:** 157
epidural, during labor, effects of, on maternal plasma beta-endorphin levels (OA) [Abboud, Sarkis, Hung, Khoo, Varakian, Henriksen, Houeihed & Goebelsmann], **59:** 1
fathers in delivery rooms—survey results of anesthesia departments (CO) [Allen], **59:** 152
and further suggestions on epidural spread in pregnancy (CO) [Bodner], **59:** 610
intrathecal morphine, for relief of labor pain in parturient with severe pulmonary hypertension (CR) [Abboud, Raya, Noueihed & Daniel], **59:** 477
minute ventilation and oxygen consumption during labor with (OA) [Hagerdal, Morgan, Sumner & Gutsche], **59:** 425
placenta and, transfer of dantrolene across (CO) [Morison], **59:** 265
in pregnant patient with scleroderma (CR) [Thompson & Conklin], **59:** 69
ophthalmologic
intraocular injection of acetylcholine in patient taking metoprolol, bronchospasm following (CR) [Rasch, Holt, Wilson & Smith], **59:** 593
and nitrous oxide increases intraocular pressure after intravitreal sulfur hexafluoride injection (LR) [Wolf, Capuano & Hartung], **59:** 557
strabismus surgery, antiemetic effect of droperidol following (CR) [Abramowitz, Oh, Epstein, Ruttimann & Friendly], **59:** 589
outpatient
enema-induced hypocalcemia and hyperphosphatemia leading to cardiac arrest during (CR) [Reedy & Zwiren], **59:** 588
and life-threatening apnea in infants recovering from anesthesia (OA) [Liu, Cote, Goudsouzian, Ryan, Firestone, Dedrick, Liu & Todres], **59:** 506
and life-threatening perioperative apnea in ex-"premie" (EV) [Gregory & Steward], **59:** 495
strabismus surgery, antiemetic effect of droperidol following (CR) [Abramowitz, Oh, Epstein, Ruttimann & Friendly], **59:** 589
pediatric
anesthetic requirements for halothane in (OA) [Lerman, Robinson, Willis & Gregory], **59:** 421
enema-induced hypocalcemia and hyperphosphatemia leading to cardiac arrest during (CR) [Reedy & Zwiren], **59:** 588
halothane in, safety and efficacy of atracurium with (CR) [Goudsouzian, Liu, Cote, Gionfriddo, & Rudd], **59:** 459
and life-threatening apnea in infants recovering from anesthesia (OA) [Liu, Cote, Goudsouzian, Ryan, Firestone, Dedrick, Liu & Todres], **59:** 506
and life-threatening perioperative apnea in ex-"Premie" (EV) [Gregory & Steward], **59:** 495
methemoglobinemia following, associated with benxocaine-containing lubricant (CR) [Kellett & Copeland], **59:** 463
methemoglobinemia induced by, in newborn infant (CR) [Duncan & Kobrinsky], **59:** 75
neonatal sepsis and (CO) [Mayhew & Taylor], **59:** 77
neostigmine and edrophonium as antagonists of pancuronium in (OA) [Meakin, Sweet, Bevan & Bevan], **59:** 316
neuromuscular pharmacology of neostigmine in (OA) [Fisher, Cronnelly, Miller & Sharma], **59:** 220
and postoperative lumbar epidural analgesia in child with respiratory disabilities (CR) [Meignier, Souron & Le Neel], **59:** 473
practical way of using heated humidifiers with pediatric T-piece systems (CO) [Hannallah & McGill], **59:** 156
pulmonary edema secondary to laryngospasm during (CR) [Lee & Downes], **59:** 347
scavenging waste gases in (CO) [Laucks], **59:** 612
strabismus surgery, antiemetic effect of droperidol following (CR) [Abramowitz, Oh, Epstein, Ruttimann & Friendly], **59:** 589
wasted ventilation in, measured *in vitro* with eight anesthetic circuits with and without inline humidification (LR) [Cote, Petkau, Ryan & Welch], **59:** 442
thoracic
for thoracotomy, temperature-related T-wave changes during (CR) [Westover & Saidman], **59:** 474
Anesthesiologists
as clinicians, American Society of Anesthesiologists Rovenstine Lecture—1979 (SA) [Vandam], **53:** 40
contributions, of, and residents as (SA) [Siker], **57:** 219
departmental logo for (CO) [Macnamara & Lees], **53:** 353
drug abuse
and alcohol abuse (SA) [Spiegelman, Saunders & Mazze], **60:** 335
hospital-associated viral infection and (MI) [duMoulin & Hedley-Whyte], **59:** 51
lack of mutagens in urines of (OA) [Baden, Kelley, Cheung & Mortelmans], **53:** 195
mortality
and exposure to anesthetics (CO) [Mazze], **52:** 281
occupational hazards
hepatitis B infection as (EV) [Oxman], **60:** 1
hepatitis B markers in (CO) [Berry, Isaacson & Kane], **61:** 622
hepatitis B markers in (CO) [Friesen], **61:** 622
prevalence of hepatitis B viral markers in (OA) [Berry, Isaacson, Hunt & Kane], **60:** 6
and quality of care review in anesthesia (SM) [Orkin & Hirsh], **54:** 93
sperm studies in (OA) [Wyrobek, Brodsky, Gordon, Moore, Watchmaker & Cohen], **55:** 527
their parents, and equipment, bacterial interactions between (MI) [du Moulin & Hedley-Whyte], **57:** 37
Anesthesiology
American Society of Anesthesiologists Rovenstein Lecture—1979 (SA) [Vandam], **53:** 40
learning objectives in, in American Board of Anesthesiology's "Quality Anesthesia Care," comment on (SA) [Dykes], **53:** 237
and pet euthanasia, terminology in, care in use of (CO) [Simmonds], **53:** 526
public communication in, observations and suggestions regarding art of (CO) [Downing], **57:** 346

and quality of care review in anesthesia (SM) [Orkin & Hirsh], **54:** 93
research
basic scientist in department (EV) [Kendig], **52:** 199
section
departmental logo for (CO) [Macnamara & Lees], **53:** 353
six journals of, survey of performances of (CO) [Fassoulaki, Mihas & Kaniaris], **53:** 346
statistics
and need for anesthesiologists trained in epidemiology (CO) [Petersen, Rubin & Tyler], **53:** 263
worth of, and progress of (SA) [Siker], **57:** 219
Anesthetic, extubation
controlled trial of early and late, in postoperative respiratory care following coronary-artery bypass grafting (OA) [Quasha, Loeber, Feeley, Ullyot & Roizen], **52:** 135
Anesthetic gas analyzing, *See under* Monitoring
Anesthetic potency, *See under* Potency, anesthetic
Anesthetic solubility, *See under* Age factors
Anesthetic systems, *See under* Equipment
Anesthetic techniques
adenosine
controlled hypotension with, in cerebral aneurysm surgery (OA) [Sollevi, Lagerkranser, Irestedt, Gordon & Lindquist], **61:** 400
are they beneficial for ischemic heart? (EV) [Merin], **53:** 439
bronchoscopy
bronchofiberscopy, respiratory assistance secured by jet-ventilation during (CO) [Dalens, Labbe & Haberer], **57:** 551
complication of (CO) [Siegel & Coleprate], **61:** 214
jet ventilation during, unilateral pneumothorax following (CR) [Chang, Bleyaert & Bedger], **53:** 244
in laryngeal surgery with resectoscope, endotracheal tube ignition during (CR) [Rita & Seleny], **56:** 60
modified oral airway for (CO) [Goldiner & Rooney], **60:** 506
closed circuit
cost of delivery of anesthetic gases in, re-examined (CO) [Patel & Milliken], **55:** 706
cost of delivery of anesthetic gases in, re-examined (CO) [Spain], **55:** 707
cost of delivery of anesthetic gases in, re-examined (CO) [Virtue & Aldrete], **55:** 707
use of, and waste anesthetic gases, ASA brochure on, fails to consider prevention (CO) [Mazze], **55:** 333
use of, and waste anesthetic gases, ASA brochure on, fails to consider prevention (CO) [Virtue], **55:** 332
complications
unintentional removal of meningeal tissue with 25-gauge spinal needle (CR) [Scheller, Sarnat & Astarita], **61:** 593
continuous infusion
of etomidate, effects of, on hormonal responses in surgical stress (OA) [Fragen, Shanks, Molteni & Avram], **61:** 593
of etomidate, in study of adrenocortical function in surgical patients (OA) [Wagner & White], **61:** 647
of fentanyl in intensive care unit: tolerance to anesthetic effects? (CR) [Shafer, White, Schuttler & Rosenthal], **59:** 245
versus intermittent bolus administration of fentanyl or ketamine during outpatient anesthesia (OA) [White], **59:** 294
electrical stimulation
reduces halothane requirements during hand surgery (CR) [Bourke, Smith, Erickson, Gwartz & Lesard], **61:** 769
transcutaneous cranial, increases potency of nitrous oxide in humans (OA) [Stanley, Cazalaa, Limoge & Louville], **57:** 293
endobrachial
indications for, in pediatric thoracic surgery: new use for fiberoptic bronchoscope (CR) [Watson, Bowe & Burk], **56:** 314
one-lung ventilation in: which lung should be PEEPed? (EV) [Benumof], **56:** 161
pulmonary oxygen exchange during (OA) [Katz, Laverne, Fairley & Thomas], **56:** 164
endobronchial
direct transthoracic endobronchial intubation in (CO) [Stevens], **53:** 83
endotracheal
first (CO) [Mihic, Binker & Novoselac], **52:** 523
during morphine-N_2O and fentanyl-N_2O, human cardiovascular responses to intubation in (CR) [Bennett & Stanley], **52:** 520
in neonate, modified laryngoscope for (CO) [Hencz], **53:** 84
epidural, *See also under* Anesthetic techniques, peridural
and bupivacaine cardiotoxicity, source of (CO) [Knapp], **60:** 257
bupivacaine in, cardiotoxicity or anesthetic technique? (CO) [Conklin & Ziadlourad], **61:** 625
cervical
unilateral block (CR) [Catchlove & Germain], **60:** 147
for cesarean section in osteogenesis imperfecta (CR) [Cunningham, Donnelly & Comerford], **61:** 91
and epinephrine with therapeutic dose of bupivacaine in obstetrics (CO) [Albright], **61:** 217
and epinephrine with therapeutic dose of bupivacaine in obstetrics (CO) [Marx], **61:** 218
fentanyl in, clinical advantages of, for postoperative analgesia (CR) [Lomessy, Magnin, Viale, Motin & Cohen], **61:** 466
improperly administered, bupivacaine cardiotoxicity in, pregnant patient with mitral valve prolapse (CO) [Batra, Bridenbaugh, Caldwell, Crawford & Hecker], **60:** 170
following inadvertent dural perforation, collapse after (CO) [Crawford], **59:** 78
minute ventilation and oxygen consumption during labor with (OA) [Hagerdal, Morgan, Sumner & Gutsche], **59:** 425
morphine
postthoracotomy pain and pulmonary function following (OA) [Shulman, Sandler, Bradley, Young & Brebner], **61:** 569
test doses for, use and abuse of (CO) [Abouleish & Bourke], **61:** 344
test doses for, use and abuse of (CO) [Moore & Batra], **61:** 345
narcotic
epinephrine and (CO) [Collier], **60:** 168
useful technique for teaching (CO) [Thomas, Arandia & Lea], **60:** 263
epidural blood patch
treatment of subarachnoid-cutaneous fistula with (CR) [Katz], **60:** 603
goats
and oxygen during mechanical ventilation (CO) [Gardaz, Perez-Chada & Sykes], **56:** 491
hypotension
isoflurane-induced, systemic and cerebral effects of in dogs (OA) [Newberg, Milde & Michenfelder], **60:** 541
hypotension, controlled
with adenosine in cerebral aneurysm surgery (OA) [Sollevi, Lagerkranser, Irestedt, Gordon & Lindquist], **61:** 400
hypotension, induced
adenosine
central and splanchnic hemodynamics in dog during (OA) [Lagerkranser, Irestedt, Sollevi & Andreen], **60:** 547
in arterial pressure manipulation of spinal cord function during correction of scoliosis (CR) [Grundy, Nash & Brown], **54:** 249
canine model of acute coronary artery stenosis in study of effects

of (OA) [Hickey, Verrier, Baer, Vlahakes, Fein & Hoffman], **59:** 226
catecholamine and renin-angiotensin response during (CR) [Knight, Lane, Hensinger, Bolles & Bjoraker], **59:** 248
cerebrovascular response to, in hypertensive rats (OA) [Hoffman, Miletich & Albrecht], **58:** 326
hemorrhagic and pharmacologic, effects of, on cerebral oxygen utilization and blood flow [Grubb & Raichle], **56:** 3
may have profound effect on liver (CO) [Bagshaw], **59:** 168
nitroglycerin
cerebrospinal fluid pressure effects of, in awake and anesthetized humans (OA) [Dohi, Matsumoto & Takahishi], **54:** 511
methemoglobinemia, and respiratory distress in postoperative cardiac surgical patient (CR) [Zurick, Wagner, Starr, Lytle & Estafanous], **61:** 464
and nitroprusside, in pulmonary hypertension (OA) [Pearl, Rosenthal & Ashton], **58:** 514
pulmonary gas exchange effects of, in canine edematous lungs (OA) [Colley, Cheney & Hlastala], **55:** 114
nitroprusside
administration, consumption of vitamin B_{12} during, in humans (OA) [Fahmy], **54:** 305
in amelioration of hypothermia after cardiopulmonary bypass in man (OA) [Noback & Tinker], **53:** 277
aminophylline potentiates, in dog (OA) [Pearl, Rosenthal, Murad & Ashton], **61:** 712
antagonism of effects of, by cyanide, may not be clinically relevant (CO) [Cole & Versey], **59:** 159
antagonism of effects of, by cyanide, may not be clinically relevant (CO) [Smith, Kruszyna & Kruszyna], **59:** 160
aortic pulse-wave contour analysis and thermodilution methods of measuring cardiac output in dog, compared (OA) [English, Hodges, Sentker, Johansen & Stanley], **52:** 56
blood-brain barrier function following, in dog (OA) [Ishikawa, Funatsu, Okamoto, Takeshita & McDowall], **59:** 526
catecholamine and renin-angiotensin response during (CR) [Knight, Lane, Hensinger, Bolles & Bjoraker], **59:** 248
cerebral cortical extracellular fluid H^+ and K^+ activities during, in cats (OA) [Morris, Heuser, McDowall, Hashiba & Myers], **59:** 10
dose requirement for, captopril reduces (OA) [Woodside, Garner, Bedford, Sussman, Miller, Longnecker & Epstein], **60:** 413
effects of, on systemic and regional hemodynamics and oxygen utilization in dog (OA) [Fan, Kim, Sinchon, Chen, Schussler & Chien], **53:** 113
in ewes, plasma renin, catecholamine, and vasopressin during (OA) [Zubrow, Daniel, Stark, Husain & James], **58:** 245
in humans, effects of propranolol on cardiovascular and renin-angiotensin systems during (OA) [Marshall, Bedford, Arnold, Miller, Longnecker, Sussman & Hakala], **55:** 277
hypertension following, and hepatic blood flow (CO) [Gelman & Patel], **54:** 90
hypertension following (CO) [Ward, Alfrey & Benumof], **52:** 525
-induced cyanide toxicity, increased resistance to, in anuric dogs (OA) [Tinker & Michenfelder], **52:** 40
and nitroglycerin, in pulmonary hypertension (OA) [Pearl, Rosenthal & Ashton], **58:** 514
for patient with Friedreich's ataxia and cardiomyopathy (CR) [Bird & Sturnin], **60:** 377
by pentolinium and propranolol during surgical correction of scoliosis (OA) [NEED AUTHOR], **53:** 0
photodegradation of sodium nitroprusside in: biologic activity and cyanide release (OA) [Arnold, Longnecker & Epstein], **61:** 254
and propranolol, combined effects of, on hypoxic pulmonary vasoconstriction (OA) [Miller, Benumof & Trousdale], **57:** 267
rebound hypertension after, prevented by saralasin, in rats (OA) [Delaney & Miller], **52:** 154
renal effects of, in postoperative cardiac patients (OA) [Maseda, Hilberman, Derby, Spencer, Stinson & Meyers], **54:** 284
requirements, influence of anesthetic technique on (CO) [Berry], **53:** 264
requirements, influence of anesthetic technique on (CO) [Marsh], **53:** 265
resetting of baroreflex sensitivity after (OA) [Chen, Matteo, Fan, Schuessler & Chien], **56:** 29
sodium, blood flow alteration induced by saralasin or, in rats (OA) [Miller & Delaney], **54:** 199
topical use of, for relief of intraoperative arterial spasm (CR) [Mathews & Mote], **61:** 776
toxicity, antidotes and methods of administration (OA) [Ivankovich, Braverman, Karuru, Heyman & Paulissian], **52:** 210
saralasin
or sodium nitroprusside, blood flow alteration induced by, in rats (OA) [Miller & Delaney], **54:** 199
by SNP, cerebrovascular and metabolic effects of, in young and aged hypertensive rats (OA) [Hoffman, Albrecht, Miletich, Holland, Anderson & Seals], **56:** 427
and sodium thiosulfate disposition in humans (OA) [Ivankovich, Braverman, Stephens, Shulman & Heyman], **58:** 11
trimethaphan
administration, consumption of vitamin B_{12} during, in humans (OA) [Fahmy], **54:** 305
blood-brain barrier function following, in dog (OA) [Ishikawa, Funatsu, Okamoto, Takeshita & McDowall], **59:** 526
catecholamine and renin-angiotensin response during (CR) [Knight, Lane, Hensinger, Bolles & Bjoraker], **59:** 248
verapamil
in study of calcium entry blockers (RA) [Reves, Kissin, Lell & Tosone], **57:** 504
hypothermia, in pregnancy (CR) [Stange & Halldin], **58:** 460
hypothermia, induced
prolonged, and rewarming, detrimental effects of (OA) [Steen, Milde & Michenfelder], **52:** 224
induction
"crash," pretreatment and (CO) [Jenkins], **61:** 346
with fentanyl-oxygen, prevention of rigidity during (CR) [Hill, Nahrwold, Rosayro, Knight, Jones & Bolles], **55:** 453
in humans with brain tumors, intracranial pressure, mean arterial pressure and heart rate following (CR) [Giffin, Cottrell, Shwiry, Hartung, Epstein & Lim], **60:** 491
intravenous lidocaine in, high altitude and (CO) [Stevens], **53:** 349
rapid sequence, in patients with full stomach (CO) [Baraka], **57:** 543
infiltration, topical
of nasal passages, total spinal blockade during (CR) [Hill, Gershon & Garguilo], **59:** 144
insufflation
simple device for, with continuous positive airway pressure during one-lung ventilation (CO) [Brown & Davis], **61:** 481
interscalene
Todd's paralysis following (CR) [Collier & Engelking], **61:** 342
intrathecal
in administration of opioids (MI) [Cousins & Mather], **61:** 276
morphine
(CO) [Perriss], **53:** 82
respiratory effects of, after upper abdominal surgery (OA)

[Clergue, Montembault, Despierres, Ghesquiere, Harari & Viars], **61:** 677

intravenous
bier block, acute bupivacaine toxicity as result of venous leakage during (CR) [Rosenberg, Kalso, Tuominen & Linden], **58:** 95
dilutions, concentrations, and drug infusion rates for (CO) [Webb], **59:** 482
"puff technique" for intravenous diazepam (CO) [Mark], **61:** 630
vs. LTA lidocaine and (CO) [White], **56:** 414

intravenous regional
site of action of (OA) [Lillie, Glynn & Fenwick], **61:** 507

intubation
endotracheal
pediatric, fiberoptic bronchoscope in (CO) [Ovassapian, Dykes & Yelich], **56:** 412
in laryngeal microsurgery, endotracheal tube is not necessary for (CO) [Talmage], **55:** 332

laryngoscopy
IV *vs.* LTA lidocaine and (CO) [Hammill, Bedford, Weaver & Colohan], **56:** 415
jet ventilation during, unilateral pneumothorax following (CR) [Chang, Bleyaert & Bedger], **53:** 244

lumbar
for cesarean section in osteogenesis imperfecta (CR) [Cunningham, Donnelly & Comerford], **61:** 91
dose response to, in adult men, age and (CR) [Park, Hagins, Rivat & Macnamara], **56:** 318
epidural narcotic infusion reservoir in: implantation technique and efficacy (CR) [Coombs, Saunders, Gaylor & Pageau], **56:** 469
high dose morphine for, in terminally ill patient (CR) [Woods & Cohen], **56:** 311
use of two catheters in, to provide analgesia of unblocked segments in patient with lumbar disc disease (CR) [Schachner & Abram], **56:** 150

nasopharyngeal insufflation, non-rebreathing, for laser surgery of infant, subglottic stenosis (CR) [Rita, Seleny & Holinger], **58:** 191
neurolept anesthesia, in moyamoya disease (CO) [Sumikawa & Nagai], **58:** 204

peridural
caudal
for early onset myotonic dystrophy (CR) [Alexander, Wolf & Ghia], **55:** 597
and epidural, bacteriologic comparison between (CR) [Abouleish, Orig & Amortegui], **53:** 511
in patient with ankylosing spondylitis for hip surgery (CR) [DeBoard, Ghia & Guilford], **54:** 164

epidural
acute sympathectomy by, effect of, on canine coronary circulation (OA) [Klassen, Branwell, Bromage & Danuta], **52:** 8
air embolism and (CO) [Larson], **58:** 587
air embolism and (CO) [Naulty], **58:** 588
anesthetic spread in, direction of needle bevel and (CR) [Park, Poon, Massengale & Macnamara], **57:** 327
in attempted extradural block, cutaneous cerebrospinal fluid leakage following (CR) [Jawalekar & Marx], **54:** 348
avoiding intravascular injections during (CO) [Schweitzer], **53:** 81
bupivacaine in, altered neural conduction with (OA) [Cusick, Myklebust, Abram & Davidson], **57:** 31
cardiotoxicity of local anesthetics in (EV) [Marx], **60:** 3
catheter insertion in—prevention of catheter buckling by means of needle hub insert (LR) [Pinchak, Podlipsky & Hagen], **59:** 559
and caudal, bacteriologic comparison between (CR) [Abouleish, Orig & Amortegui], **53:** 511
cervical, circulatory responses to airway stimulation (OA) [Dohi, Nishikawa, Ujike & Mayumi], **57:** 359
for cesarean section (OA) [Datta, Corke, Alper, Brown, Ostheimer & Weiss], **52:** 48
for cesarean section, disposition of bupivacaine following (CO) [Abouleish], **57:** 249
for cesarean section, use of selected ion monitoring technique to study disposition of bupivacaine in mother, fetus, and neonate following (OA) [Kuhnert, Stitts & Gross], **55:** 611
chloropropane vs. bupivacaine for, for elective cesarean section (OA) [James, Dewan, Floyd, Wheeler, Grant, Rhyne & Westmoreland], **52:** 488
collapse after, following inadvertent dural perforation (CO) [Collier], **57:** 427
components of effective test dose prior to (CO) [Moore & Batra], **57:** 141
continuous, and subarachnoid, anticoagulation following: evaluation of neurologic sequelae (OA) [Rao & El-Etr], **55:** 618
continuous, in labor, double-blind comparison of morphine and bupivacaine for (OA) [Writer, James & Wheeler], **54:** 215
device for identification of epidural space in (CR) [Mustafa & Miliken], **57:** 330
dorsal root ganglion as site of blockade during (CO) [Frumin], **54:** 524
dural diffusion of local anesthetics in (CO) [Greene], **60:** 619
epinephrine does not alter human intervillous blood flow during (OA) [Albright, Jouppila, Hollmen, Jouppila, Vierola & Koivula], **54:** 131
gravitational spread of, dextrose affects (CR) [Park & Eastwood], **52:** 439
hazard of new catheter for (OC) [Frankhouser], **58:** 293
hazard of new catheter for (OC) [Lingenfelter], **58:** 292
hemiparesis following (CR) [Wedel & Mulroy], **59:** 475
hydromorphone in, and intravenous droperidol, early respiratory depression with (CR) [Cohen, Rothblatt & Albright], **59:** 569
in identification of epidural space, simpler device for (CO) [Hein & Bhatia], **60:** 79
inadvertent intravenous injection of 2-chloroprocaine in, plasma levels of, and lack of sequelae following (CO) [Gross, Kuhnert, Kuhnert & Pimental], **54:** 173
and intramuscular morphine in post-cesarean patients, pain relief and plasma concentrations from (OA) [Youngstrom, Cowan, Sutheimer, Eastwood & Yu], **57:** 404
or intrathecal morphine application, CSF and plasma morphine after (CO) [Jorgensen, Andersen & Engquist], **55:** 714
for labor and delivery of twins of paraplegic mother (CR) [Watson & Downey], **52:** 258
lidocaine and bupivacaine mixtures for (OA) [Seow, Lips, Cousins & Mather], **56:** 177
lidocaine in reversal of tachyphylaxis to epidural morphine analgesia (CO) [Coombs], **59:** 486
local anesthetics in, and suggestions on spread in pregnancy (CO) [Bodner], **59:** 610
lumbar dural puncture, subdural hematomas after (CR) [Edelman & Wingard], **52:** 166
lumbar, errant epidural catheter in (CR) [Blass, Roberts & Wiley], **54:** 419
lumbar, inadvertent intravascular injections during (CO) [Kenepp & Gutsche], **54:** 172

maternal and fetal plasma levels of 2-chloroprocaine following (OA) [Kuhnert, Kuhnert, Prochaska & Gross], **53:** 21
measurement of catheter length for (CO) [Horrow], **58:** 198
millipore filters are not necessary for (CO) [Abouleish & Amortegui], **55:** 604
monitor of sensory level during (CO) [Andrade & Winkinski], **52:** 189
morphine, biphasic depression of ventilatory responses to CO_2 following (OA) [Kafer, Brown, Scott, Findlay, Butz, Teeple & Ghia], **58:** 418
morphine, for postcesarean patient (OA) [Cohen & Woods], **58:** 500
morphine in (CO) [Perriss], **53:** 82
morphine in, in terminally ill patient (CO) [McCoy & Miller], **57:** 427
morphine, Japanese pioneer in clinical use of (CO) [Matsuki], **58:** 289
morphine, pain control with (CR) [Chayden, Rudick & Borvine], **53:** 338
morphine, pharmacokinetic aspects of (OA) [Nordberg, Hedner, Mellstrand & Dahlstrom], **58:** 545
with morphine, serum levels following, and correlation with relief of postsurgical pain (OA) [Weddell & Ritter], **54:** 210
morphine sulfate in, effective use of, for postoperative orthopedic pain (CR) [Ebert & Varner], **53:** 257
narcotic, influence of epinephrine as adjuvant to (OA) [Bromage, Camporesi, Durant & Nielsen], **58:** 257
narcotics, following epidural local anesthesia: effect on ventilatory and airway occlusion pressure responses to CO_2 [Doblar, Muldoon, Abbrecht, Baskoff & Watson], **55:** 423
needles for, hairline cracks in (CR) [Ready], **52:** 370
in obstetrics, followed byaseptic meningoencephalitis (CR) [Neumark, Feichtinger & Gassner], **52:** 518
in obstetrics, headache immediately following (CO) [Aherling & Brodsky], **52:** 100
with opiates, -adrenergic agonists and baclofen, studies in primate on anagetic effects associated with (OA) [Yaksh & Reddy], **54:** 457
optimal test dose for (CO) [Nicholas], **60:** 79
optimal test dose for (CO) [Stonham & Moss], **58:** 389
in patient with ankylosing spondylitis for hip surgery (CR) [De Board, Ghia & Guilford], **54:** 164
postoperative analgesia with, in child with respiratory disabilities (CR) [Meignier, Souron & Le Neel], **59:** 473
sites of action, and differential neural effects (OA) [Cusick, Myklebust & Abram], **53:** 299
sixteen-gauge Tuohy needles should be abandoned in (CO) [Moore], **53:** 269
spread of analgesia in, in early pregnancy (CR) [Fagraeus, Urban & Bromage], **58:** 184
and subarachnoid block, case of unilateral analgesia following, revisited (CO) [deRosayro], **55:** 478
and subarachnoid block, unilateral analgesia following (CR) [Bozeman & Chandra], **52:** 356
and subarachnoid block, unilateral analgesia following (CO) [Hodgkinson & Husain], **53:** 353
thoracic, clinical implications of effects of, on endocardial/epicardial flow distribution ratio are not justified (CO) [Merin], **53:** 349
treatment of duro-cutaneous fistula secondary to, with epidural autologous blood patch (CR) [Longmire & Joyce], **60:** 63
triamcinolone in, and adrenal response to hypoglycemic stress in dogs (OA) [Gorski, Rao, Glisson, Chinthagada & El-Etr], **57:** 364
ultrasonic localization of lumbar epidural space for (CR) [Cork, Krye & Vaughan], **52:** 513
venous air embolism during catheter insertion in (CR) [Naulty, Ostheimer, Datta, Knapp & Weiss], **57:** 410
versus general anaesthesia, neonatal pattern of breathing following cesarean section (OA) [Fisher, Mortola, Smith, Fox & Weeks], **59:** 389
in humans (OA) [Glynn, Mather, Cousins, Graham & Wilson], **55:** 520
lumbar
advantage of prone position approach in (CR) [Mustafa, Milliken & Bizzarri], **58:** 464
anesthetic spread in, direction of needle bevel and (CR) [Park, Poon, Massengale & Macnamara], **57:** 327
in attempted extradural block, cutaneous cerebrospinal fluid leakage following (CR) [Jawalekar & Marx], **54:** 348
chloroprocaine vs. bupivacaine for, for elective cesarean section (OA) [James, Dewan, Floyd, Wheeler, Grant, Rhyne & Westmoreland], **52:** 488
and epidural morphine in post-cesarean patients, pain relief and plasma concentrations from (OA) [Youngstrom, Cowan, Sutheimer, Eastwood & Yu], **57:** 404
hemiparesis following (CR) [Wedel & Mulroy], **59:** 475
injection into interspace adjacent to inadvertent dural perforation in, total spinal block after (CR) [Hodgkinson], **55:** 593
maternal and fetal plasma levels of 2-chloroprocaine following (OA) [Kuhnert, Kuhnert, Prochaska & Gross], **53:** 21
postoperative analgesia with, in child with respiratory disabilities (CR) [Meignier, Souron & Le Neel], **59:** 473
segmental effects of morphine in, in man (CR) [Asari, Inoue, Shibata & Soga], **54:** 75
spread of analgesia in, in early pregnancy (CR) [Fagraeus, Urban & Bromage], **58:** 184
treatment of duro-cutaneous fistula secondary to, with epidural autologous blood patch (CR) [Longmire & Joyce], **60:** 63
origin of balloon technique as epidural-space indicator for (CO) [Erceg], **52:** 193
thoracic
segmental effect of morphine in, in man (CR) [Asari, Inoue, Shibata & Soga], **54:** 75
peridural, epidural
and cardiopulmonary resuscitation of late-pregnant women (CO) [Marx], **56:** 156
dose response to, in adult men, age and (CR) [Park, Hagins, Rivat & Macnamara], **56:** 318
high dose morphine for, in terminally ill patient (CR) [Woods & Cohen], **56:** 311
morphine
for postoperative pain relief (OA) [Martin, Salbaing, Blaise, Tetrault & Tetreault], **56:** 423
in rostral spread of [Bromage, Camporesi, Durant & Nielsen], **56:** 431
narcotic
and ventilatory depression (CO) [Doblar], **56:** 487
and ventilatory depression (CO) [Knill, Lam, Thompson & Doblar], **56:** 486
use of two catheters in, to provide analgesia of unblocked segments in patient with lumbar disease (CR) [Schachner & Abram], **56:** 150
pudendal block
neonatal neurobehavior effects of bupivacaine, mepivacaine, and 2-chloroprocaine used for (OA) [Merkow, McGuinness, Erenberg & Kennedy], **52:** 309

rapid sequence induction, evaluation of thiopental, ketamine, and midazolam for (OA) [White], **57:** 279

rectal
methohexital in, severe histamine-mediated reaction to (CR) [Liu, Liu & Moss], **61:** 95
methohexital premedication in, in children, a dose-comparison study (CR) [Liu, Goudsouzian & Liu], **53:** 343

regional
are preferable for premature fetus (CO) [Finucane & Bramwell], **54:** 435

axillary
difficult, use of Doppler for (CO) [Abramowitz & Cohen], **55:** 603
and functional anatomy of brachial plexus sheaths (OA) [Thompson & Rorie], **59:** 117

brachial plexus
bilateral spread of analgesia following (CR) [Lombard & Couper], **58:** 472
bupivacaine toxicity and bier blocks (CO) [Heath], **59:** 481
continuous interscalene, for surgical operations on hand (CO) [Vatashsky & Aronson], **53:** 356
and functional anatomy of brachial plexus sheaths (OA) [Thompson & Rorie], **59:** 117
with phenol for painful arm associated with Pancoast's syndrome (CR) [Mullin], **53:** 431

complications
for cesarean section in osteogenesis imperfecta (CR) [Cunningham, Donnelly & Comerford], **61:** 91
unintentional removal of meningeal tissue with 25-gauge spinal needle (CR) [Scheller, Sarnat & Astarita], **61:** 593

epidural narcotic infusion reservoir in: implantation technique and efficacy (CR) [Coombs, Saunders, Gaylor & Pageau], **56:** 469

intercostal
postoperative respiratory failure following (CR) [Cory & Mulroy], **54:** 418

interscalene brachial plexus
bronchospasm following (CR) [Thiagarajah, Lear, Azar, Salzer & Zeiligsohn], **61:** 759

intravenous
and bupivacaine and bier block (CO) [Moore], **61:** 782
monitoring respirations with gauze thread during (CO) [Moore], **61:** 623

lumbar
sympathetic, in diffuse reflex sympathetic dystrophy (CR) [Bentley & Hameroff], **53:** 256

lumbar sympathetic
in abdominal injury, causalgia of vascular etiology following (CR) [Szeinfeld, Saucedo & Pallares], **57:** 46

nerve block(s)
celiac plexus, improved techniques for, may be more theoretical than real (CO) [Moore, Bush & Burnett], **57:** 347
celiac plexus, improved techniques for, may be more theoretical than real (CO) [Singler], **57:** 348
celiac plexus, in alcohol neurolysis of, improved technique for (CR) [Singler], **56:** 137
multiple intercostal, in management of pain after thoracotomy (CO) [Restelli, Movilia, Bossi & Caironi], **61:** 353

by nurse anesthetists (CO) [Ogden], **53:** 82

paravertebral
thoracic somatic, postural headache following (CR) [Sharrock], **52:** 360

phrenic
transient, during internal jugular vein cannulation using anterolateral approach (CR) [Stock & Downs], **57:** 230

phrenic nerve
block, value of fluoroscopy before performance of (CR) [Benzon, Prasad & Barthwell], **55:** 469

and prone position approach to lumbar epidural space (CR) [Mustafa, Milliken & Bizzarri], **58:** 464

retrobulbar block
brain stem anesthesia following (CO) [Chang, Gonzalez-Abola, Larson & Lobes], **61:** 789

scalp
bupivacaine in, blood levels of, with and without epinephrine (CR) [Colley & Heavner], **54:** 81

stellate
for arterial insufficiency of arm in premature infants (CR) [Lagade & Poppers], **61:** 203
and brachial plexus block with phenol for painful arm associated with Pancoast's syndrome (CR) [Mullin], **53:** 431
in diagnosis of ulnar artery occlusion simulating reflex sympathetic dystrophy (CR) [Spielman, Ghia, Teeple & Mandell], **54:** 343
in diffuse reflex sympathetic dystrophy (CR) [Bently & Hameroff", **53:** 256
ganglion block, pneumochylothorax as rare complication of (CR) [Thompson, Melding & Matangdi], **55:** 589
using physiologic saline solution (CR) [Benzon, Linde, Hawes & Brunner], **52:** 511
preoperative blockade with, to prevent hypertension following coronary-artery operations (CO) [Estafanous, Fonad & Tarazi], **52:** 454
sympathetic block, direct non-penetrating injury to cervical sympathetic chain and brachial plexus, hypersympathetic dysfunctional state following—Pourfour Du Petit syndrome (CR) [Teeple, Ferrer, Ghia & Pallares], **55:** 591
Todd's paralysis following (CR) [Collier & Engelking], **61:** 342

sympathetic block
in diagnosis of ulnar artery occlusion simulating reflex sympathetic dystrophy (CR) [Spielman, Ghia, Teeple & Mandell], **54:** 343
in treatment of causalgia (CO) [Teeple & Ghia], **58:** 294
in treatment of causalgia (CO) [Szeinfeld & Pallares], **58:** 295

with resetoscope, endotracheal tube ignition during (CR) [Rita & Seleny], **56:** 60

sedation
operative, aid to airway maintenance during (CO) [DeLeeuw], **60:** 388

selection, "ATTENDING" computer system in (SA) [Miller], **58:** 362

spinal
adverse effects of, in patient with idiopathic hypertrophic subaortic stenosis (CR) [Loubser, Suh & Cohen], **60:** 228
agents administered in, effects of, on spinal cord blood flow (EV) [Yaksh], **59:** 173
anesthetic doses in, blocking adrenergic (stress) and cardiovascular responses to incision—MAC BAR (OA) [Roizen, Horrigan & Frazer], **54:** 390
and central action of spinal opiates (CO) [Bahar, Orr & Dundee], **55:** 334
for cesarean section, method of ephedrine administration and nausea and hypotension during (CR) [Datta, Alper, Ostheimer & Weiss], **56:** 68
chest pain of esophageal origin during (CR) [Moon], **53:** 510

complications
unintentional removal of meningeal tissue with 25-gauge spinal needle (CR) [Scheller, Sarnat & Astarita], **61:** 593
dural puncture
and epidural blood patch, intracerebral hemorrhage after (CO) [Benzon], **60:** 258
effect of, on adrenergic tone and neuroendocrine responses to surgical stress in humans (OA) [Pflug & Halter], **55:** 120
and epidural blood patch, headache and (CO) [Sternick & Stirt], **61:** 348
of epidural morphine application, CSF and plasma morphine after (CO) [Jorgensen, Andersen & Engquist], **55:** 714
epinephrine
suppresses noxiously evoked activity of WDR neurons in dorsal horn of spinal cord (OA) [Collins, Kitahata, Matsumoto, Homma & Suzukawa], **60:** 269
experimental
in dog, chronic model for investigation of (OA) [Feldman & Covino], **54:** 148
fentanyl
suppresses noxiously evoked activity of WDR neurons in dorsal horn of spinal cord (OA) [Collins, Kitahata, Matsumoto, Homma & Suzukawa], **60:** 269
in suppression of R neurons (OA) [Suzukawa, Matsumoto, Collins, Kitahata & Yuge], **58:** 510
in idiopathic hypertrophic subaortic stenosis (CO) [Larson], **61:** 229
in idiopathic hypertrophic subaortic stenosis (CO) [Larson], **61:** 229
increased resistance to injection during (CO) [Glick], **57:** 64
intrathecal morphine in, in parturient with single ventricle (CR) [Ahmad, Hawes, Dooley, Faure & Brunner], **54:** 515
intrathecal opiates in, a potent tool to be used with caution (CO) [Stanley], **53:** 527
lidocaine and bupivacaine administration by, plasma concentrations following (OA) [Burm, van Kleef, Gladines, Spierdijk & Breimer], **59:** 191
lidocaine and phenylephrine in, effects of, on spinal cord and cerebral blood flow in dogs (OA) [Dohi, Matsumiya, Takeshima & Naito], **61:** 238
monitor of sensory level during (CO) [Andrade & Winkinski], **52:** 189
morphine
CNS depression from (CO) [Witt & Manawadu], **52:** 280
or intravenous, effects of, on cerebral and spinal hemodynamics and antagonism with naloxone in dogs (OA) [Matsumiya & Dohi], **59:** 477
for obstetric analgesia, more experience with (CO) [Mok & Tsai], **55:** 481
for obstetric analgesia (OA) [Baraka, Noueihid & Hajj], **54:** 136
in obstetrics (CO) [Crawford], **55:** 487
pharmacokinetics aspects of (OA) [Norberg, Hedner, Mellstrand & Dahlstrom], **60:** 448
for relief of labor pain in parturient with severe pulmonary hypertension (CR) [Abboud, Raya, Noueihed & Daniel], **59:** 477
suppression of noxiously evoked WDR dorsal horn neuronal activity by (OA) [Homma, Collins, Kitahata, Matsumoto & Kawahara], **58:** 232
for morphine administration, opiate withdrawal syndrome following (CR) [Tung, Tenicela & Winter], **53:** 340
with opiates, -adrenergic agonists and baclofen, studies in primate on analgetic effects associated with (OA) [Yaksh & Reddy], **54:** 457
patient's description of, need for reassurance (CO) [Ramsey], **60:** 520
post-lumbar
post-lumbar puncture headache as complication of, intracerebral hemorrhage following (CR) [Mantia], **55:** 680
and precipitation of local anesthetic drugs in cerebrospinal fluid (CO) [Dudziak], **58:** 388
pulmonary embolism during, angiographic diagnosis of (CR) [Berry], **57:** 57
recurring error concerning, time to correct (CO) [Davis], **55:** 715
spinal action of narcotic chalgesics during (RA) [Kitahata & Collins], **54:** 153
subarachnoid block
continuous, and epidural, anticoagulation following evaluation of neurologic sequelae (OA) [Rao & El-Etr], **55:** 618
and epidural, case of unilateral analgesia following, revisited (CO) [deRosayro], **55:** 478
and epidural, unilateral analgesia following (CR) [Bozeman & Chandra], **52:** 356
and epidural anesthesia, unilateral analgesia following (CO) [Hodgkinson & Husain], **53:** 353
and visual disturbances with transurethral prostatic resection reaction (CR) [Ovassapian, Joshi & Brunner], **57:** 332
test dose
peridural
caudal, block, components of effective test dose prior to (CR) [Moore & Batra], **55:** 689
epidural, block, components of effective test dose prior to (CR) [Moore & Batra], **55:** 689
topical
application of, to nasal mucosa, atraumatic method for (CO) [Hannenberg], **59:** 606
new device for delivery of local anesthetic (CO) [Kinyon], **56:** 154
transcutaneous electrical stimulation, and nitrous oxide, effect of, on brain potentials elicited by painful stimulation (OA) [Chapman, Schimek, Gehrig, Gerlach & Colpitts], **58:** 250
Anesthetic techniques, nerve block, ***See under*** **Nerve block**
Anesthetics
antiviral effects of, pressure reversal of (OA) [Bedows & Knight], **59:** 109
in aqueous solutions at 37°, osmolarity determines solubility of (LR) [Lerman, Willis, Gregory & Eger], **59:** 564
in canine model of acute coronary artery stenosis: effects of deliberate hypotension (OA) [Hickey, Verrier, Baer, Vlahakes, Fein & Hoffman], **59:** 226
in cats, brain surface protrusion during (OA) [Drummond, Todd, Toutant & Shapiro], **59:** 288
cocaine, inhibition of α-aminobutyric acid release from synaptosomes by (OA) [Ikeda, Dohi & Tsujimoti], **58:** 495
for coronary-artery revascularization, hemodynamic predictors of myocardial ischemia during (OA) [Lieberman, Orkin, Jobes & Schwartz], **59:** 36
effect of, on myocardial necrosis, hemodynamic performance, and regional myocardial blood flow following coronary artery occlusion (OA) [Davis, DeBoer, Rude, Lowenstein & Maroko], **59:** 402
effects of, on myocardial oxidation-reduction status assessed by NADH fluorometry (LR) [Kissin, Aultman & Smith], **59:** 447
effects of, on responses to ligation of coronary artery in chronically prepared rats (OA) [Jang, MacLeod & Walker], **59:** 309
fentanyl
etomidate vs. thiopental with and without—comparative study

of awakening in man (CR) [Horrigan, Moyers, Johnson, Eger, Margolis & Goldsmith], **52:** 362
and nitrous oxide, effects of, on fetal heart-rate variability intra- and postoperatively (CR) [Johnson & Colley], **52:** 429
tympanic membrane rupture after, in absence of middle ear disease (CO) [White], **59:** 368

gases
argon
and alcohol, potencies of, in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, Deady & Eger], **56:** 18
cyclopropane
and alcohol, potencies of, in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, Deady & Eger], **56:** 18
anesthetic requirements for, in quaking mouse (OA) [Koblin], **54:** 17
discontinuance of use of (CR) [Duncalf], **56:** 217
effects of, on catecholamine release from bovine adrenal medulla (LR) [Sumikawa, Amakata, Kashimoto & Izumi], **53:** 49
malignant hyperthermia triggered by, during cesarean section (CR) [Lips, Newland & Dutton], **56:** 144
requirement in rats, effects of acute phencyclidine administration on (OA) [Raja, Moscicki, Woodside & DiFazio], **56:** 275
N_2O/O_2
clinical use of atracurium during (CR) [Ramsey, White, Stullken, Lineberry & Allen], **61:** 328
nitrogen
and alcohol, potencies of, in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, Deady & Eger], **56:** 18
nitrous oxide
30 per cent, during inhalation and recovery, time course of mental and psychomotor effects of (OA) [Korttila, Ghoneim, Jacobs & Petersen], **54:** 220
age-dependent alterations in requirements of, in mice (OA) [Koblin, Lurz & Eger], **58:** 428
and air-filled balloon-tipped catheters (LR) [Kaplan, Abramowitz & Epstein], **55:** 71
anesthetic requirements for, in quaking mouse (OA) [Koblin], **54:** 17
antagonism of, by naloxone in man (OA) [Yang, Clark & Ngai], **52:** 356
as anti-stress agent? (CO) [Gillman, Footerman & Lichtigfeld], **56:** 234
in assessment of psychological effects of general anesthesia on children (OA) [Morgan, Furman & Dikman], **55:** 386
baroreceptor reflex control of heart rate during, in humans (OA) [Kotrly, Ebert, Vucins, Roerig & Kampine], **61:** 558
biotransformation of (CO) [Hong, Trudell, O'Neil & Cohen], **53:** 354
biotransformation of (CO) [Linde & Avram], **53:** 354
and cancer (EV) [Cohen], **52:** 6
contraindications to, in pneumoencephalus (CO) [Wolf & Albin], **53:** 525
during coronary artery surgery, left ventricular end-diastolic pressure (LVEDP) as index for use of (CR) [Balasaraswathi, Kumar, Rao & El-Etr], **55:** 708
decreases motility of human neutrophils *in vitro* (LR) [Nunn & O'Motain], **56:** 45
in development of intraoperative tension pneumocephalus (CR) [Artru], **57:** 59
effect of, on microbicidal activity of human polymorphonuclear leukocytes (LR) [Welch], **61:** 188
effects of concentration of, on event-related potentials during painful tooth stimulation (OA) [Benedetti, Chapman, Colpitts & Chen], **56:** 360
effects of, on cerebrovascular tone, oxygen metabolism, and electroencephalogram of isolated perfused canine brain (OA) [Fitzpatrick & Gilboe], **57:** 480
elimination of, accelerated elimination of halothane (OA) [Masuda & Ikeda], **60:** 567
endotracheal tube obstruction by (CR) [Munson, Stevens & Redfern], **52:** 275
-enflurane, and enflurane anesthesia, baroreflex control of heart rate in man awake during (OA) [Morton, Duke & Ong], **52:** 221
and enflurane anesthesia, anisocoria and ipsilateral exophthalmos during (CR) [Klein & Kosanin], **57:** 237
and enflurane anesthesia, systemic vascular responses to atracurium during (OA) [Hilgenberg, Stoelting & Harris], **58:** 242
erroneous labeling of cylinder for (CO) [Sawhney & Yoon], **59:** 260
evidence for *in vivo* biotransformation of (CO) [Nunn], **54:** 527
and excitatory/inhibitory responses of midbrain reticular neurons (OA) [Shimoji, Fujioka, Fukazawa, Hashiba & Maruyama], **61:** 151
exposure to, and health problems in dental workers (EV) [Michenfelder], **53:** 1
and fentanyl, effects of, on fetal heart-rate variability intra- and postoperatively (CR) [Johnson & Colley], **52:** 429
and halothane and enflurane, relationship of concentrations of, to their metabolism and elimination in man (OA) [Cahalan, Johnson & Eger], **54:** 3
and halothane, coronary vascular reserve in dogs anesthetized with, compared (OA) [Vernier, Edelist, Consigry, Robinso & Hoffman], **53:** 445
and halothane, effect of, on oxidative activity of human neutrophils (OA) [Welch & Zaccari], **57:** 172
hazard of, during laser endoscopic surgery (CO) [Chilcoat, Byles & Kellman], **59:** 258
human bone marrow biochemical function and megaloblastic hematopoiesis after anesthesia with (OA) [O'Sullivan, Jennings, Ward, McCann, Scott & Weir], **55:** 645
inactivates methionine synthetase activity in rat testis (OA) [Bordsky, Baden, Serra & Kundomal], **61:** 66
inactivation of methionine synthetase by, in mice (OA) [Koblin, Deady, Stokstad & Eger], **54:** 318
increases intraocular pressure after intravitreal sulfur hexafluoride injection (LR) [Wolf, Capuano & Hartung], **59:** 557
in intensification of pulmonary arterial pressure response to venous injection of carbon dioxide in dog (OA) [Steffey, Johnson & Eger], **52:** 52
interaction of diazepam with, and effect of diazepam on cerebral metabolic state in rats (OA) [Carlsson & Chapman], **54:** 488
interaction of intraocular air and sulfur hexafluoride with computer stimulation (LR) [Stinson & Donion], **56:** 385
interacts with opiate receptors (CO) [Gillman & Lichtigfeld], **58:** 483
and intraoperative tension pneumocephalus (CO) [Frost], **58:** 197
liter flows of, table for—use of compressed air made easy (CR) [Teeple & Pavlov], **55:** 692
local metabolic effects of somatosensory stimulation in central

nervous system following (OA) [Crosby, Crane, Jehle & Sokoloff], **58:** 38
markedly increases cerebral cortical metabolic rate and blood flow in goat (OA) [Pelligrino, Miletich, Hoffman & Albrecht], **60:** 405
and mechanical ventilation, canine $\dot{V}_A/\dot{Q}$ distribution responses to (OA) [Dueck, Rathbun & Harrison], **55:** 127
metabolism of, by human and rat intestinal contents (OA) [Hong, Trudell, O'Neil & Cohen], **52:** 16
in methodology for studying cerebral evoked potentials challenged (CO) [Grundy], **52:** 286
in methodology for studying cerebral evoked potentials challenged (CO) [Chapman & Benedetti], **52:** 286
mice selectively bred for resistance and susceptibility to, potencies of convulsant drugs in (OA) [Koblin, O'Connor, Deady & Eger], **56:** 25
mice selectively bred for resistance and susceptibility to, potencies of inhaled anesthetics and alcohol in (OA) [Koblin, Deady & Eger], **56:** 18
morphine and fentanyl with, human cardiovascular responses to endotracheal intubation during (CR) [Bennett & Stanley], **52:** 520
morphologic changes in mouse spermatozoa after exposure to, during early spermatogenesis (OA) [Land, Owen & Linde], **54:** 53
moyamoya disease and (CO) [Sumikawa & Nagai], **58:** 204
murine resistance to, selective breeding altering, without alteration in synaptic membrane lipid composition (OA) [Koblin, Dong, Deady & Eger], **52:** 401
and naloxone and its analeptic effect (CO) [Gillman & Lichtigfeld], **58:** 287
neurologic changes during awakening from (OA) [Rosenberg, Clofine & Bialik], **54:** 125
neurotoxicity of, studies of, in man and rat (OA) [Dyck, Grina, Lambert, Calder, Oviatt, Rehder, Lund & Skow], **53:** 205
nonanesthetic source of, in operating room air (CR) [Wray], **52:** 88
does not increase opioid peptides in cerebrospinal fluid of humans (OA) [Way, Hosobuchi, Johnson, Eger & Bloom], **60:** 43
in olive oil, new value for solubility of (CO) [Cooper & Joseph], **55:** 716
in pediatric patients, effect of, on neuromuscular function (OA) [Crumrine & Yodlowski], **54:** 29
or pentobarbital-treated rats, comparison of local rates of glucose utilization in spinal cord and brain in conscious and (OA) [Crosby, Crane & Sokoloff], **61:** 434
in prevention of hypoxic accidents (CO) [Eisenman], **61:** 624
in prevention of intraoperative myocardial ischemia during noncardiac surgery with intravenous nitroglycerin (CR) [Coriat, Daloz, Bousseau, Fusciardi, Echter & Viars], **61:** 193
and prevention of tension pneumocephalus after craniotomy (CO) [Friedman], **58:** 196
prolonged exposure to, decreases opiate receptor density in rat brainstem (OA) [Ngai & Finck], **57:** 26
pulmonary vascular responses to, in normal and high pulmonary vascular resistance (OA) [Schulte-Sasse, Hess & Tarnow], **57:** 9
respiratory effects of, during enflurane anesthesia in humans (OA) [Lam, Clement, Chung & Knill], **56:** 298
and simple fool-proof method to prevent hypoxic accidents (CO) [Zorab], **60:** 515
in study of effect of thiopental induction on sympathetic activity (OA) [Joyce, Roizen & Eger], **59:** 19
in study of lung volume and VA/Q distribution response to intravenous versus inhalation anesthesia in sheep (OA) [Dueck, Rathbun & Greenburg], **61:** 55
symptomatic pneumocephalus after translabrynthine acoustic neuroma excision and (CR) [Miller & Furman], **58:** 281
systemic and regional blood flow distribution in unanesthetized swine and swine anesthetized with (OA) [Tranquilli, Manohar, Parks, Thurmon, Theodorakis, Benson & Chasno], **56:** 369
and tension pneumocephalus and intermittent drainage of ventricular CSF (CO) [Drummond], **60:** 609
toxicity, failure to correct, with folinic acid (CO) [O'Sullivan, Jennings, McCann, Ward, Scott & Weir], **57:** 558
toxicity, failure to correct, with folinic acid (CO) [Skacel, Chanarin, Hewlitt & Nunn], **57:** 557
trace concentrations, in operating room (SA) [Lecky], **52:** 157
trace concentrations, source of, in operating room air (CR) [Wray], **52:** 88
trace levels, time-weighted averaging for (LR) [McGill, Rivera & Howard], **53:** 424
transcutaneous cranial electrical stimulation during (CO) [Nicosia & Lombardi], **59:** 264
transcutaneous cranial electrical stimulation increases potency of, in humans (OA) [Stanley, Cazalaa, Limoge & Louville], **57:** 293
and transcutaneous electrical stimulation, effects of, on brain potentials elicited by painful stimulation (OA) [Chapman, Schimek, Gehrig, Gerlach & Colpitts], **58:** 250
tympanic membrane rupture after anesthesia with (CR) [Perrault, Normandin, Plamondon, Blain, Rousseau, Girard & Forget], **57:** 325
for vaginal delivery, neonatal neurobehavioral effects of [Stefani, Hughes, Shnider, Levinson, Abboud, Henrikson, Williams & Johnson], **56:** 351
in vivo response of air-filled balloon-tipped catheters to (LR) [duBoulay & Nahrwold], **57:** 530
withdrawal syndrome (OA) [Rupreht, Dworacek, Ducardus, Schmitz & Dzoljic], **58:** 524

trace concentrations
anesthesiologists exposed to, sperm studies in (OA) [Wyrobek, Barodsky, Gordon, Moore, Watchmaker & Cohen], **55:** 527
ASA brochure on, fails to consider prevention (CO) [Mazze], **55:** 333
ASA brochure on fails to consider prevention (CO) [Virtue], **55:** 332

xenon
and nitrous oxide, influence of, on methionine synthetase, in mice, compared (OA) [Koblin, Watson, Deady, Stokstad & Eger], **54:** 318
halothane inhibits metabolism of, in Fischer 344 rats (OA) [Fish & Rice], **59:** 417
hepatotoxicity of, mechanism of, hyperthyroid rats (CO) [Carmichael], **59:** 601
hepatotoxicity of, mechanism of, in hyperthyroid rats (CO) [Berman, Kuhnert, Phythyon & Holaday], **59:** 601

intravenous
alfentanil
are pharmacokinetics really predictable? (CO) [Fisher], **59:** 256
are pharmacokinetics really predictable? (CO) [Hug & Stanski], **59:** 257
ED_{50} of, for induction of anesthesia in unpremedicated young adults (OA) [McDonnell, Bartkowski & Williams], **60:** 136
in human serum, optimization of radioimmunoassays for measuring (LR) [Schuttler & White], **61:** 315

as kinetically predictable narcotic analgesia (EV) [Stanski & Hug], **57:** 435
pharmacokinetics of (OA) [Bovill, Sebel, Blackburn & Heykants], **57:** 439

alphadione
reaginic antibodies to (OA) [Fisher], **52:** 318

alphaxalone
selective actions of, on nicotinic- and muscarinic-receptor-mediated responses of dog adrenal medulla (OA) [Sumikawa, Matsumoto, Amenomori, Hirano & Amakata], **59:** 412

althesin
regional cerebral glucose utilization during anesthesia with (OA) [Davis, Hawkins, Mans, Hibbard & Biebuyck], **61:** 362
for ambulatory surgery, neurologic state and psychomotor function following (CR) [Azar, Karambelkar & Lear], **60:** 347

barbiturates
for brain resuscitation, question of (EV) [Michenfelder], **57:** 74
and cerebral vascular responsivity in dogs (OA) [McPherson & Traystman], **60:** 180
high-dose, in patients with severe head injuries, acute tolerance to (CR) [Sawada, Sugimoto, Kobayashi, Ohashi, Yoshioka & Sugimoto], **56:** 53

benzodiazepines
diazepam, and midazolam (maleate), cerebral metabolic, vascular and protective effects of, compared (OA) [Nugent, Artru & Michenfelder], **56:** 172
midazolam (maleate), and diazepam, cerebral metabolic, vascular and protective effects of, compared (OA) [Nugent, Artru & Michenfelder], **56:** 172
and neuroleptic drugs, current theories about mechanisms of (MI) [Richter], **54:** 66
and polymorphonuclear leukocyte oxidative activity (CO) [Gelb], **61:** 632
and polymorphonuclear leukocyte oxidative activity (CO) [Goldfarb & Belghiti], **61:** 633
in vitro effect of, on polymorphonuclear leukocyte oxidative activity (LR) [Goldfarb, Belghiti, Gautero & Boivin], **60:** 57
cerebral blood volume and CSF pressure during anesthesia with, in dogs, relationship between (OA) [Artru], **60:** 575
and cerebral vascular responsivity in dogs (OA) [McPherson & Traystman], **60:** 180

diazepam
baroreceptor reflex control of heart rate during in humans (OA) [Kotrly, Ebert, Vucins, Roerig & Kampine], **61:** 558
residual effects of, evaluation of instrumented force platform as test to measure (OA) [Korttila, Ghoneim, Jacobs & Lakes], **55:** 625
selective actions of, on nicotinic- and muscarinic-receptor-mediated responses of dog adrenal medulla (OA) [Sumikawa, Matsumoto, Amenomori, Hirano & Amakato], **59:** 412

droperidol
action on left ventricular performance in humans (OA) [Marty, Nitenberg, Blanchet, Laffay, Mazze & De monts], **57:** 22
diazepam, and physostigmine, influence of, on ketamine-induced behavior and brain regional glucose utilization in rat (OA) [Oguchi, Arakawa, Nelson & Samson], **57:** 353
effects of refractoriness of accessory pathway in Wolff-Parkinson-White syndrome (OA) [Gomez-Arnau, Marquez-Montes & Avello], **58:** 307
nalbuphine and, for local standby sedation (CO) [Klein], **58:** 397
a selective antagonist of postsynapticα-adrenoceptors in canine saphenous vein (OA) [Hyatt, Muldoon & Rorie], **53:** 281

etomidate
activation of epileltogenic activity of (CR) [Gancher, Laxer & Krieger], **61:** 616
effects of, on hormonal responses to surgical stress (OA) [Fragen, Shanks, Molteni & Avram], **61:** 652
improves anesthetic management in obstetrics (CO) [Downing, Brock-Utne & Mankowitz], **55:** 334
inhibits adrenocortical function in surgical patients (OA) [Wagner & White], **61:** 647
oxygen consumption during sleep and anesthesia with, in dogs (OA) [Mikat, Peters, Zindler & Arndt], **60:** 220
as stress free: to be used or not to be used? (EV) [Longnecker], **61:** 643
vs. thiopental, with and without fentanyl—comparative study of awakening in man (CR) [Horrigan, Moyers, Johnson, Eger, Margolis & Goldsmith], **52:** 362

fentanyl
awareness during (CO) [Mainzer], **56:** 331
cardiovascular effects of ketamine given to relieve penile turgescence after (CR) [Roy], **61:** 610
clinical use of atracurium during (CR) [Ramsey, White, Stulken, Lineberry & Allen], **61:** 328
continuous infusion, in comparative study of intraoperative and postoperative effects (CR) [White, Dworsky, Horai & Trevor], **59:** 574
dose-independent pharmacokinetics of (OA) [Murphy, Hug & McClina], **59:** 537
effects of, on response of plasma beta-endorphin immunoreactivity to surgery (OA) [Dubois, Pickar, Cohen, Gadde, Macnamara & Bunney], **57:** 468
effects on refractoriness of accessory pathway in Wolff-Parkinson-White syndrome (OA) [Gomez-Arnau, Marquez-Montes & Avello], **58:** 307
in general anesthesia for morbidly obese patients—an examination of postoperative outcomes (OA) [Cork, Vaughan & Bentley], **54:** 310
grand mal seizure after administration of (CO) [Safwat & Daniel], **59:** 78
halothane, and no anesthesia, compared during coronary ligation (OA) [MacLeod, Augereau & Walker], **58:** 44
and halothane anesthesia, myocardial functional and metabolic responses to ischemia in swine during (OA) [Merin, Verdouw & de Jong], **56:** 84
high-dose, effects of, on cerebral circulation and metabolism in rats (OA) [Carlsson, Smith, Kayhah, Englebach & Harp], **57:** 375
high-dose, effects of, on electroencephalogram (OA) [Sebel, Bovill, Wauquier & Rog], **55:** 203
high-dose, for neuroanesthesia (CR) [Shupak, Harp, Stevenson-Smith, Rossi & Buchheit], **58:** 579
high-dose, hemodynamic changes prior to and after sternotomy in patients anesthetized with (CR) [Edde], **55:** 444
high-dose, in coronary artery disease, myocardial blood flow and oxygen consumption during (OA) [Sontag, Larsen, Hilfiker, Kettler & Brockschnieder], **56:** 417
and human brain-stem auditory evoked potentials (OA) [Samra, Lilly, Rush & Kirsh], **61:** 261
in human serum, optimization of radioimmunoassays for measuring (LR) [Schuttler & White], **61:** 315
-induced postoperative rigidity, preferred treatment of (CO) [Wangler & Gupta], **59:** 604
infusion in intensive care unit: tolerance to anesthetic effects? (CR) [Shafer, White, Schuttler & Rosenthal], **59:** 245
and low-dose enflurane in study of blood loss during therapeutic abortion (CR) [Sidhu & Cullen], **57:** 127

metabolites, identification and quantitative determination of, by gas chromatography-mass spectrometry (LR) [Goromaru, Matsuura, Yoshimura, Miyawaki, Sameshima, Miyao, Furuta & Baba], **61:** 73
and morphine, anesthesia with, histamine release during (OA) [Rosow, Moss, Philbin & Savarese], **56:** 93
in narcotic "anesthesia" in eighties (EV) [Lowenstein & Philbin], **55:** 195
neurologic changes during awakening from (OA) [Rosenberg, Clofine & Bialik], **54:** 125
-O_2, and sufentanil-O_2 for coronary artery surgery (OA) [de Lange, Boscoe, Stanley & Pace], **56:** 112
-oxygen anesthesia for aortocoronary bypass operation, hemodynamic changes during (OA) [Waller, Hug, Nagle & Craver], **55:** 212
-oxygen anesthesia, high-dose, intraoperative awareness during (CR) [Hilgenberg], **54:** 341
and oxygen induction of anesthesia, prevention of rigidity during (CR) [Hill, Nahrwold, de Rosayro, Knight, Jones & Bolles], **55:** 452
-pancuronium anesthesia, failure of intravenous nitroglycerin to prevent intraoperative myocardial ischemia during (OA) [Thomson, Mutch & Culligan], **61:** 385
postoperative rigidity following (CR) [Christian, Waller & Moldenhauer], **58:** 275
in prevention of intraoperative myocardial ischemia during noncardiac surgery with intravenous nitroglycerin (CR) [Coriat, Daloz, Bousseau, Fusciardi, Echter & Viars], **61:** 193
study of, in prevention of increase in intracranial pressure during endotracheal suctioning (CR) [White, Schlobohm, Pitts & Lindauer], **57:** 242
tissue redistribution of, and termination of its effects in rats (OA) [Hug & Murphy], **55:** 369
truncal rigidity induced by, attenuation of (CR) [Jaffe & Ramsey], **58:** 562
use of continuous infusion versus intermittent bolus administration of, during outpatient anesthesia (OA) [White], **59:** 294
general anesthesia with, in "inducible" porphyrias (OA) [Mustajoki & Heinonen], **53:** 15
grand mal seizures after (CO) [Hoien], **60:** 387
hemodynamics and histamine release during induction with (CR) [Rosow, Philbin, Keegan & Moss], **60:** 489
heparin
-lock, in pediatric radiation therapy (CR) [Rodarte], **56:** 316
high-dose epidural, in terminaly ill patient (CR) [Woods & Cohen], **56:** 311
ketamine
-aminophylline-induced decrease in seizure threshold (CR) [Hirshman, Krieger, Littlejohn, Lee & Julien], **56:** 464
blood pressure control during use of, following guanethidine treatment (OA) [Miller, Beckman, Woodside, Althuas & Peach], **58:** 32
brain cyclic-AMP and possible mechanisms of cerebrovascular dilation by, in rats (LR) [MacMurdo, Nemoto, Nikki & Frankenberry], **55:** 435
cardiovascular effects of, given to relieve penile turgescence after high doses fentanyl (CR) [Roy], **61:** 610
for cesarean section in patient with acute intermittent porphyria and achondroplastic dwarfism (CR) [Bancroft & Lauria], **59:** 143
changes in hypoglossal and phrenic nerve activity in response to increasing depth of anesthesia with, in cats (OA) [Nishino, Shirahata, Yonezawa & Honda], **60:** 19
continuous infusion, in comparative study of intraoperative and postoperative effects (CR) [White, Dworsky, Horai & Trevor], **59:** 574
development of tolerance to, in infant undergoing repeated anesthesia (CR) [Byer & Gould], **54:** 255
different laryngeal responses during respiratory arrest produced by, in cats (OA) [Nishino, Yonezawa & Honda], **56:** 280
and effects of naloxone on duration of sleeping time (OA) [Kraynack & Gintautas], **56:** 251
for high-dose total body irradiation in children (CR) [Lo, Buckley, Kim & Lopez], **61:** 101
-induced behavior and brain regional glucose utilization in rat, influence of droperidol, diazepam, and physostigmine on (OA) [Oguchi, Arakawa, Nelson & Samson], **57:** 353
-induced changes in regional glucose utilization in rat brain (OA) [Nelson, Howard, Cross & Samson], **52:** 330
induction during hypovolemia in swine (OA) [Weiskopf, Bogetz, Roizen & Reidl], **60:** 214
influence of, on arteriolar diameters and tissue oxygen tension in hemorrhaged rats (OA) [Longnecker, Ross & Silver], **57:** 177
influence of, on cardiac output and tissue perfusion in rats subjected to hemorrhage (OA) [Idvall], **55:** 297
influence of, on regional hemodynamics in normal and hemorrhaged rats (OA) [Seyde & Longnecker], **61:** 686
in inhibition of synaptosomal GABA disposal (OA) [Cheng & Brunner], **55:** 34
isomers, pharmacology of, in surgical patients (OA) [White, Ham, Way & Trever], **52:** 527
-lidocaine combination for elective cardioversion (CO) [White], **60:** 511
local changes in cerebral glucose utilization during anesthesia with (OA) [Crosby, Crane & Sokoloff], **56:** 437
may exacerbate psychiatric illness (CO) [Gueria], **53:** 177
and measuring regional cerebral glucose utilization (CO) [Crosby & Sokoloff], **58:** 29
and measuring regional cerebral glucose utilization (CO) [Hawkins, Hass & Ransohoff], **58:** 290
midazolam, and thiopental compared for rapid sequence induction (OA) [White], **57:** 279
opiate receptor mediation of (OA) [Finck & Ngai], **56:** 291
and paralysis agitans (CO) [Hetherington & Rosenblatt], **52:** 149
pharmacology and therapeutic uses of (RA) [White, Way & Trevor], **56:** 119
selective actions of, on nicotinic- and muscarinic-receptor-mediated responses of dog adrenal medulla (OA) [Sumikawa, Matsumoto, Amenomori, Hirano & Amakata], **59:** 412
for short outpatient surgery (CO) [Sosis], **60:** 605
for short outpatient surgery (CO) [White], **60:** 605
in study of cerebrovascular response to hypotension in hypertensive rats (OA) [Hoffman, Miletich & Albrecht], **58:** 326
treatment of status epilepticus (CO) [Sybert & Kuff], **58:** 203
use of continuous infusion versus intermittent bolus administration of, during outpatient anesthesia (OA) [White], **59:** 294
methohexital
high-dose, in humans, hemodynamic consequences of (OA) [Todd, Drummond & Sang], **61:** 495
is not contraindicated in epileptics (CO) [Allen & Male], **56:** 240
is not contraindicated in epileptics (CO) [Rockoff & Goudsouzian], **56:** 241

oxygen consumption during sleep and anesthesia with, in dogs (OA) [Mikat, Peters, Zindler & Arndt], **60:** 220
rectally administered, severe histamine-mediated reaction to (CR) [Liu, Liu & Moss], **61:** 95
residual effects of, evaluation of instrumental force platform as test to measure (OA) [Korttila, Ghoneim, Jacobs & Lakes], **55:** 625
seizures induced by (CO) [Metriyakoo], **55:** 714
seizures induced by (CR) [Rockoff & Goudsouzian], **54:** 333
and thiopental, pharmacokinetics of, in surgical patients (OA) [Hudson, Stanski & Burch], **59:** 215

midazolam
bioassay of, against sodium thiopental (OA) [Sarnquist, Mathers, Brock-Utne, Carr, Canup & Brown], **52:** 149
bioassay, potency and (CO) [Kissin], **53:** 351
in chronic renal failure patients (OA) [Vinik, Reves, Greenblatt, Abernathy & Smith], **59:** 390
effective dose of (CO) [Reves, Kissin & Smith], **55:** 82
hemodynamic effects of (CO) [Reves, Kissin & Fournier], **60:** 517
in humans with brain tumors, intracranial pressure, mean arterial pressure and heart rate following (CR) [Giffin, Cottrell, Shwiry, Hartung, Epstein & Lim], **60:** 491
ketamine, and thiopental compared for rapid sequence induction (OA) [White], **57:** 279
pharmacokinetics, automated gas chromatography for studies of (LR) [Greenblatt, Locniskar, Ochs & Lauven], **55:** 176
and thiopental, comparative renal effects of, in humans (OA) [Lebowitz, Cote, Daniels & Bonventre], **59:** 381
and thiopental, ventilation after (OA) [Gross, Zebrowski, Carel, Gardner & Smith], **58:** 540

morphine
baroreceptor reflex control of heart rate during, in humans (OA) [Kotrly, Ebert, Vucins, Roerig & Kampine], **61:** 558
doses of, blocking adrenergic (stress) and cardiovascular responses to incision—MAC BAR (OA) [Roizen, Horrigan & Frazer], **54:** 390
and fentanyl, anesthesia with, histamine release during (OA) [Rosow, Moss, Philbin & Savarese], **56:** 93
hemodynamics, plasma histamine, and catecholamine concentrations during anaphylactoid reaction to morphine (CR) [Fahmy], **55:** 329
neurologic changes during awakening from (OA) [Rosenberg, Clofine & Bialik], **54:** 125
pharmacokinetics of, in patients anesthetized with enflurane-nitrous oxide (OA) [Murphy & Hug], **54:** 187
pharmacokinetics of, injected intravenously into anesthetized dog (OA) [Hug, Murphy, Rigel & Olson], **54:** 38
resetting of baroreflex sensitivity after induced hypotension following anesthesia with (OA) [Chen, Matteo, Fan, Schuessler & Chien], **56:** 29
and synaptosomal GABA disposal (OA) [Cheng & Brunner], **55:** 34
use of H_1 and H_2 histamine antagonists with: double-blind study (OA) [Philbin, Moss, Akins, Rosow, Kono, Schneider, VerLee & Savarese], **55:** 292

narcotics
ceiling effect due to? (CO) [Eisele & Steffey], **60:** 392

neuroleptics
benzodiazepines, current theories about mechanisms of (MI) [Richter], **54:** 66

pancuronium
in prevention of intraoperative myocardial ischemia during noncardiac surgery with intravenous nitroglycerin (CR) [Coriat, Daloz, Bousseau, Fusciardi, Echter & Viars], **61:** 193

pentobarbital
alteration in influenza virus pulmonary pathology induced by (OA) [Knight, Bedows, Nahrwold, Maassab, Smitka & Busch], **58:** 209
anesthesia in dog, arrhythmogenic plasma levels of epinephrine during (OA) [Sumikawa, Ishizaka & Suzaki], **58:** 322
brain cyclic-AMP and possible mechanisms of cerebrovascular dilation by, in rats (LR) [MacMurtlo, Nemoto, Nikki & Frankenberry], **55:** 435
24 hours deep anesthesia with, canine cerebral metabolic tolerance during (OA) [Gronert, Michenfelder, Sharbrough & Milde], **55:** 110
and effects of naloxone on duration of sleeping time (OA) [Kraynack & Gintautas], **56:** 251
and halothane, effects of, to inhibit synthesis of lung proteins (OA) [Rannels, Roake & Watkins], **57:** 87
24 hours, whole body and organ system tolerance during (OA) [Gronert, Michenfelder, Steen & Milde], **58:** 18
infusions, compatibility and stability of (CO) [Walker & Iazzetta], **55:** 487
lidocaine, and hypothermia, inhibition of cerebral oxygen and glucose consumption in dog by (OA) [Astrup, Sorensen & Sorensen], **55:** 263
local metabolic effects of somatosensory stimulation in central nervous system following (OA) [Crosby, Crane, Jahle & Sokoloff], **58:** 38
or nitrous oxide-treated rats, comparison of local rates of glucose utilization in spinal cord and brain in conscious and (OA) [Crosby, Crane & Sokoloff], **61:** 434
in study of effect of morphine on motor reaction threshold in rats (OA) [Kissin & Jebeles], **61:** 671
in study of effects of volatile anesthetics on myocardial oxidation-reduction status assessed by NADH fluorometry (LR) [Kissin, Aultman & Smith], **59:** 447
in study of influence of ketamine anesthesia on cardiac output and tissue perfusion in rats subjected to hemorrhage (OA) [Idvall], **55:** 297
in study of lung volume and $\dot{V}_A/\dot{Q}$ distribution response to intravenous versus inhalation anesthesia in sheep (OA) [Dueck, Rathbun & Greenburg], **61:** 55
seizures induced by, activate subcortical brain metabolism (OA) [Tommasino, Maekawa & Shapiro], **60:** 283
for short outpatient surgery (CO) [Sosis], **60:** 605
for short outpatient surgery (CO) [White], **60:** 605

sufentanil
effects of, on regional cerebral glucose utilization in rats (OA) [Young, Smith, Greenberg, Reivich & Harp], **61:** 564
hemodynamics and histamine release during induction with (CR) [Rosow, Philbin, Keegan & Moss], **60:** 489
-O_2, and fentanyl-O_2 for coronary artery surgery (OA) [de Lange, Boscoe, Stanley & Pace], **56:** 112
pharmacokinetics of, in surgical patients (OA) [Bovill, Sebel, Blackburn, Oei-Lim & Heykants], **61:** 502

thiamylal
2.5%, intraarterial injection of, does cause gangrene (CO) [Dohi & Naito], **59:** 154
and excitatory/inhibitory responses of midbrain reticular neurons (OA) [Shimoji, Fujioka, Fukazawa, Hashiba & Maruyama], **61:** 151
high-dose, in patients with severe head injuries, acute tolerance to (CR) [Sawada, Sugimoto, Kobayashi, Ohashi, Yoshioka & Sugimoto], **56:** 53

thiopental
anaphylaxis and reagin involvement (CR) [Lilly & Hoy], **53:** 335
anesthesia with, and muscle paralysis, thoracic gas volume and chest-abdomen dimensions during (OA) [Hedenstierna, Lofstrom & Lundh], **55:** 499
arrhythmias induced by, in dogs (CO) [Dresel & Smith], **58:** 395
arrhythmias induced by, in dogs (CO) [Seeler & Thurmon], **58:** 394
bioassay of a water-soluble benzodiazepine against (OA) [Sarnquist, Mathers, Brock-Utne, Carr, Canup & Brown], **52:** 149
bioassay, potency and (CO) [Kissin], **55:** 351
and brain resuscitation (EV) [Shapiro], **60:** 85
for brain resuscitation, question of (EV) [Michenfelder], **57:** 74
for cesarean section (CO) [Marx & Costin], **57:** 547
for cesarean section: a rebuttal (CO) [Mark & Poppers], **59:** 158
for cesarean section, and dilemma of general anesthesia for (CO) [Mark & Poppers], **56:** 405
changes in hypoglossal and phrenic nerve activity in response to increasing depth of anesthesia with, in cats (OA) [Nishino, Shirahata, Yonezawa & Honda], **60:** 19
concepts of distribution and metabolism (CO) [Tanner], **59:** 484
continuous infusion, in comparative study of intraoperative and postoperative effects (CR) [White, Dworsky, Horai & Trevor], **59:** 574
different laryngeal responses during respiratory arrest produced by, in cats (OA) [Nishino, Yonezawa & Honda], **56:** 280
dilation of pupil in human subjects after (CR) [Larson], **54:** 246
disposition as function of age in female patients undergoing surgery (OA) [Jung, Mayersohn, Perrier, Calkins & Reynolds], **56:** 263
dose response of, for induction of general anesthesia in unpremedicated children (CR) [Cote, Goudsouzian, Liu, Dedrick & Rosoe], **55:** 703
effect of brain levels of, on validity of techniques measuring ventilatory depression (CO) [Roy], **60:** 264
effects of, on hormonal responses to surgical stress (OA) [Fragen, Shanks, Molteni & Avram], **61:** 652
etomidate vs., with and without fentanyl—comparative study of awakening in man (CR) [Horrigan, Moyers, Johnson, Eger, Margolis & Goldsmith], **52:** 362
in example of pitfalls of deriving pharmacokinetic variables (CO) [Feingold], **56:** 236
in example of pitfalls of deriving pharmacokinetic variables (CO) [Mertens], **56:** 237
in example of pitfalls of deriving pharmacokinetic variables (CO) [Morgan, Blackman, Paull & Mark], **56:** 237
in example of pitfalls of deriving pharmacokinetic variables (CO) [Stanski], **56:** 230
in example of pitfalls of deriving pharmacokinetic variables (CO) [Tanner], **56:** 235
and excitatory/inhibitory responses of midbrain reticular neurons (OA) [Shimoji, Fujioka, Fukazawa, Hashiba & Maruyama], **61:** 151
false-positive RAST in patients with elevated serum IgE (CR) [Dueck & O'Connor], **61:** 337
high-dose, used in cerebral resuscitation, pharmacokinetics of (CR) [Stanski, Mihm, Rosenthal, Kalman], **53:** 169
and histamine release during bronchospasm (OA) [Hermens, Edelstein, Hanifin, Woodward & Hirshman], **61:** 69
in humans with brain tumors, intracranial pressure, mean arterial pressure and heart rate following (CR) [Giffin, Cottrell, Shwiry, Hartung, Epstein & Lim], **60:** 491
hypothermia plus: prolonged electroencephalographic suppression (OA) [Quasha, Tinker & Sharbrough], **55:** 636
induction during hypovolemia in swine (OA) [Weiskopf, Bogetz, Roizen & Reidl], **60:** 214
induction, effect of, on sympathetic activity (OA) [Joyce, Roizen & Eger], **59:** 19
in induction of anesthesia, reduction in REEP of respiratory system with (OA) [Bergman], **57:** 14
in inhibition of synaptosomal GABA disposal (OA) [Cheng & Brunner], **55:** 34
intraarterial 2.5%, lone case of gangrene following (CO) [Mark], **59:** 153
Intraarterial, and gangrene (CO) [Dundee], **59:** 154
intra-arterial (CO) [Taff], **57:** 543
ketamine, and midazolam compared for rapid sequence induction (OA) [White], **57:** 279
leukocyte histamine release to (CR) [Hirshman, Peters & Cartwright-Lee], **56:** 64
lidocaine, and hypothermia, effects of, increase in extracellular potassium in brain during circulatory arrest (OA) [Astrup, Skovsted, Gjerris & Sorensen], **55:** 256
-lidocaine combination, hypnotic effect of, in rat (LR) [Kissin & McGee], **57:** 311
and low-dose enflurane in study of blood loss during therapeutic abortion (CR) [Sidhu & Cullen], **57:** 127
and methohexital, pharmacokinetics of, in surgical patients (OA) [Hudson, Stanski & Burch], **59:** 215
midazolam and, ventilation after (OA) [Gross, Zebrowski, Carel, Gardner & Smith], **58:** 540
and midazolam, comparative renal effects of, in humans (OA) [Lebowitz, Cote, Daniels & Bonventre], **59:** 381
model for studying depth of anesthesia and acute tolerance to (OA) [Hudson, Stanski, Saidman & Meathe], **59:** 301
neurologic effects of, following experimental cardiac arrest in cats (OA) [Todd, Chadwick, Shapiro, Dunlop, Marshall & Dueck], **57:** 76
does not increase opioid peptides in cerebrospinal fluid of humans (OA) [Way, Hosobuchi, Johnson, Eger & Bloom], **60:** 43
oxygen consumption during sleep and anesthesia with, in dogs (OA) [Mikat, Peters, Zindler & Arndt], **60:** 220
pharmacokinetic modelling of (EV) [Stanski], **54:** 446
pharmacokinetics and plasma binding of, studies at cesarean section (OA) [Morgan, Blackman, Paull & Wolf], **54:** 474
pharmacokinetics and plasma binding of, studies in surgical patients (OA) [Morgan, Blackman, Paull & Wolf], **54:** 468
pharmacokinetics in patients with cirrhosis (OA) [Pandele, Chaux, Salvadori, Farinotti & Duvaldestin], **59:** 123
pharmacokinetics of, in pediatric surgical patients (OA) [Sorbo, Hudson & Loomis], **61:** 666
potentiation of halothane, epinephrine-induced arrhythmias in dogs (OA) [Atlee & Malkinson], **57:** 285
potentiation of isolated rabbit pulmonary artery contractions with alpha receptor agonists (OA) [Fukuda, Inomata, Tsuji & Takeshita], **60:** 187
reaginic antibodies to (OA) [Fisher], **52:** 318
residual effects of, evaluation of instrumented forces platform as test to measure (OA) [Korttila, Ghoneim, Jacobs & Lakes], **55:** 625

role of metabolism and protein bonding in (OA) [Burch & Stanski], **58:** 146
selective actions of, on nicotinic- and muscarinic-receptor-mediated responses of dog adrenal medulla (OA) [Sumikawa, Matsumoto, Amenomori, Hirano & Amakata], **59:** 412
in study of adrenocortical function in surgical patients (OA) [Wagner & White], **61:** 647
in study of effects of volatile anesthetics on myocardial oxidation-reduction status assessed by NADH fluorometry (LR) [Kissin, Aultman & Smith], **59:** 447
in study of etomidate for induction and supplementation of anesthesia (EV) [Longnecker], **61:** 643
tolerance, acute (CO) [Mark], **60:** 526
treatment after global brain ischemia in pigtailed monkeys (OA) [Gisvold, Safar, Hendrickx, Rao, Moossy & Alexander], **60:** 88
unusual adverse drug reaction to (CR) [Butler, Kazmierowski, Bruss & Hirshman], **57:** 51

ketamine
halothane or enflurane, whole-body distribution of radioactively labelled microspheres during anesthesia with (OA) [Miller, Kistner & Epstein], **52:** 296

local
adjuvants
potent, dextran is not (CO) [Rosenblatt], **55:** 480
benzocaine
-containing lubricant, methemoglobinemia associated with (CR) [Kellett & Copeland], **59:** 463
bupivacaine
blood levels of, after injection into scalp with and without epinephrine (CR) [Colley & Heavner], **54:** 81
cardiac arrhythmias induce by, in sheep (OA) [Kotelko, Shnider, Dailey, Brizgys, Levinson, Shapiro, Koike & Rosen], **60:** 10
cardiotoxicity, in pregnant patient with mitral valve prolapse (CO) [Conklin & Ziadlou-Rad], **58:** 596
cardiotoxicity in pregnant patient with mitral valve prolapse (CO) [Batra, Bridenbaugh, Caldwell, Crawford & Hecker], **60:** 170
cardiotoxicity may be more related to technique than to drug (CO) [Knapp], **60:** 257
cardiotoxicity of (EV) [Marx], **60:** 3
cardiotoxicity or anesthetic technique? [Conklin & Ziadlourad], **61:** 635
cerebral and cardiac toxicity of, influence of serum potassium on (OA) [Avery, Redon, Schaenzer & Rusy], **61:** 134
for cesarean section (OA) [Datta, Corke, Alper, Brown, Ostheimer & Weiss], **52:** 48
vs. chloroprocaine, for lumbar epidural analgesia for elective cesarean section (OA) [James, Dewan, Floyd, Wheeler, Grant, Rhyne & Westmoreland], **52:** 488
in comparison of bronchodilator aerosols (OA) [Downes, Hirshman & Leon], **58:** 216
as component of test dose prior to epidural block (CO) [Moore & Batra], **57:** 141
as component of test dose prior to epidural block (CO) [Morison], **57:** 140
convulsant levels of (CO) [Fitzgibbons, Moore & Balfour], **55:** 476
and convulsions with hypoxia and acidosis (CR) [Moore, Thompson & Crawford], **56:** 230
differential peripheral nerve block by, in cats (OA) [Ford, Raj, Singh, Regan & Ohlweiler], **60:** 28
disposition of, following epidural anesthesia for cesarean section (CO) [Abouleish], **57:** 249
disposition of, following epidural anesthesia for cesarean section (CO) [Kuhnert, Kuhnert & Gross], **57:** 250
disposition of, in mother, fetus, and neonate following anesthesia for cesarean section, use of selected ion monitoring technique to study (OA) [Kuhnert, Kuhnert, Stitts & Gross], **55:** 611
epidural, altered neural conduction with (OA) [Cusick, Myklebust, Abram & Davidson], **57:** 31
as epidural test dose (CO) [Stonham & Moss], **58:** 339
epinephrine with, in obstetrics (CO) [Albright], **61:** 217
epinephrine with, in obstetrics (CO) [Marx], **61:** 218
esters, kinetics of, and effects of adjuvant drugs on 2-chloropropane hydrolysis (OA) [Raj, Ohlweiler, Hitt & Denson], **53:** 307
etidocaine, lidocaine, and tetracaine, differential sensitivities of mammalian nerve fibers to (OA) [Gissen, Covino & Gregus], **53:** 467
in experimental spinal anesthesia in dog, chronic model for investigation of (OA) [Feldman & Covino], **54:** 148
gas chromatographic determination of, in plasma, using tubular column and nitrogen-selective detector (LR) [Burm, Kleef & de Boer], **57:** 527
-induced convulsions, severe hypoxia and acidosis following (CR) [Moore, Crawford & Scurlock], **53:** 259
influence of 2-chloroprocaine on subsequent analgesic potency of (OA) [Corke, Carlson & Dettbarn], **60:** 25
in interscalene block, Todd's paralysis following (CR) [Collier & Engelking], **61:** 342
and lidocaine, effects of, on AV conduction in isolated rat heart: modification by hyperkalemia (OA) [Komai & Rusy], **55:** 281
lidocaine, etodicaine, and epinephrine, arrhythmias induced by, during halothane anesthesia in dogs (OA) [Chapin, Kushins, Munson & Schick], **52:** 23
and lidocaine mixtures of, for epidural blockade (OA) [Seow, Lips, Cousins & Mather], **56:** 177
mepivacaine, and 2-chloroprocaine, for pudendal block neonatal neurobehavioral effects of (OA) [Merkow, McGuinness, Erenberg & Kennedy], **52:** 309
in mixtures of local anesthetics, is no more toxic than parent drug (OA) [deJong & Bonin], **54:** 177
and morphine, for continuous epidural analgesia in labor, double-blind comparison of (OA) [Writer, James & Wheeler], **54:** 215
and other epidural anesthetics, differential neural effects of, compared (OA) [Cusick, Myklebust & Abram], **53:** 299
plasma concentrations of, and of lidocaine, after subarachnoid administration (OA) [Burm, van Kleef, Gladines, Spierdijk & Breimer], **59:** 191
potential interactions between cimetidine and, in obstetrics (CO) [Hodgkinson], **60:** 508
potential interactions between cimetidine and, in obstetrics (CO) [Moir & McMorland], **60:** 507
precipitation of, in cerebrospinal fluid (CO) [Dudziak], **58:** 388
serum protein binding of, influence of lactic acid on (OA) [Coyle, Denson, Thompson, Myers, Arthur & Bridenbaugh], **61:** 127
in study of components of effective test dose prior to epidural block (CR) [Moore & Batra], **55:** 689
toxic reaction to, at low plasma concentration (CR) [Hasselstrom & Mogensen], **61:** 99
toxicity and bier block (CO) [Heath], **59:** 481
toxicity and bier block (CO) [Moore], **61:** 782

toxicity, as result of venous leakage during bier block (CR) [Rosenberg, Kalso, Tuominen & Linden], **58:** 95

chloroprocaine
bupivacaine, and mepivacaine used for pudendal block, neonatal neurobehavioral effects of (OA) [Merkow, McGuinness, Erenberg & Kennedy], **52:** 309
vs. bupivacaine, for lumbar epidural analgesia for elective cesarean section (OA) [James, Dewan, Floyd, Wheeler, Grant, Rhyne & Westmoreland], **52:** 488
for cesarean section (OA) [Datta, Corke, Alper, Brown, Ostheimer & Weiss], **52:** 48
for cesarean section, pain relief and plasma concentrations from epidural and intramuscular morphine following (OA) [Youngstrom, Cowan, Sutheimer, Eastwood & Yu], **57:** 404
as component of test dose prior to epidural block (CO) [Moore & Batra], **57:** 141
as component of test dose prior to epidural block (CO) [Morison], **57:** 140
differential peripheral nerve block by, in cats (OA) [Ford, Raj, Singh, Regan & Ohlweiler], **60:** 28
in experimental spinal anesthesia in dog, chronic model for investigation of (OA) [Feldman & Covino], **54:** 148
hydrolysis, kinetics of local anesthetic esters and effects of adjuvant drugs on (OA) [Raj, Ohlweiler, Hitt & Denson], **53:** 307
hydrolysis, rates of, and pseudocholinesterase levels, in patients receiving adequate doses of phospholine iodide (CR) [Lanks & Sklar], **52:** 434
influence of, on subsequent analgesic potency of bupivacaine (OA) [Corke, Carlson & Dettbarn], **60:** 25
in mixtures of local anesthetics, is no more toxic than parent drug (OA) [deJong & Bonin], **54:** 177
and other epidural anesthetics, differential neural effects of, compared (OA) [Cusick, Myklebust & Abram], **53:** 299
plasma levels of, and lack of sequelae following inadvertent intravenous injection (CO) [Gross, Kuhnert, Kuhnert & Pimental], **54:** 173
plasma levels of, in obstetric patients and their neonates after epidural anesthesia (OA) [Kuhnert, Kuhnert, Prochaska & Gross], **53:** 21
prolonged epidural block with, in postpartum patient with abnormal pseudocholinesterase (CR) [Kuhnert, Philipson, Pimental & Kuhnert], **56:** 477
in study of components of effective test dose prior to epidural block (CR) [Moore & Batra], **55:** 689
urinary metabolites of (CO) [Krohg & Jellum], **56:** 483
urinary metabolites of (CO) [Kuhnert, Kuhnert & Reese], **56:** 483

cocaine
and further suggestions on epidural spread in pregnancy (CO) [Bodner], **59:** 610
in local anesthesia of nasal passages, total spinal blockade during (CR) [Hill, Gershon & Gargiulo], **59:** 144
protection from convulsions induced by, with -aminobutyric acid (OA) [Ikeda, Dohi & Tsujimoto], **56:** 365
topical application of, to nasal mucosa, atraumatic method for (CO) [Hannenberg], **59:** 606
convulsions induced by, administer oxygen first in treatment of (CO) [Moore], **53:** 346

dibucaine
in experimental spinal anesthetics in dog, chronic model for investigation of (OA) [Feldman & Covino], **54:** 148

diethyl ether
erythrocyte expansion due to (OA) [Bull, Brailsford & Bull], **57:** 399
differential nerve block by (EV) [deJong], **53:** 443
differential never block by, unitary explanation for, remains elusive (CO) [Fink], **55:** 191
differential sensitivities of nerve fibers to, conclusions concerning, may not be justified (CO) [Gissen], **55:** 483
differential sensitivities of nerve fibers to, conclusions concerning, may not be justified (CO) [Galindo], **55:** 482
dural diffusion of (CO) [Greene], **60:** 25

enflurane
aminophylline and (CO) [Stirt & Sternick], **57:** 252
anisocoria and ipsilateral exophthalmos during (CR) [Klein & Kosanin], **57:** 237
causes prolonged and reversible increase in rate of CSF production in dog (OA) [Artru, Nugent & Michenfeldt], **57:** 255
defluorination in humans, isoniazid-induced (OA) [Mazze, Woodruff & Heerdt], **57:** 5
densities of, between 0° and 35° C (LR) [Korman & Ritchie], **57:** 42
and fentanyl compared for effect on response of plasma beta-endorphin immunoreactivity to surgery (OA) [Dubois, Pickar, Cohen, Gadde, Macnamara & Bunney], **57:** 468
influence of, on arteriolar diameters and tissue oxygen tension in hemorrhaged rats (OA) [Longnecker, Ross & Silver], **57:** 177
low-dose, does not increase blood loss during therapeutic abortion (CR) [Sidhu & Cullen], **57:** 127
MAC, anesthetic potency of fentanyl in terms of its reduction of (OA) [Murphy & Hug], **57:** 485
in study of free radical formation *in vivo* and hepatotoxicity due to anesthesia with halothane (OA) [Plummer, Beckwith, Bastin, Adams, Cousins & Hall], **57:** 160

etidocaine
bupivacaine, and lidocaine in epinephrine induced arrhythmias during halothane anesthesia in dogs [Chapin, Kushins, Munson & Schick], **52:** 23
bupivacaine, lidocaine and tetracaine, differential sensitivities of mammalian nerve fibers to (OA) [Gissen, Covino & Gregus], **53:** 467
cardiotoxicity of (EV) [Marx], **60:** 3
for cesarean section (OA) [Datta, Corke, Alper, Brown, Ostheimer & Weiss], **52:** 48
and convulsions with hypoxis and acidosis (CR) [Moore, Thompson & Crawford], **56:** 230
differential peripheral nerve block by, in cats (OA) [Ford, Raj, Singh, Regan & Ohlweiler], **60:** 28
and other epidural anesthetics, differential neural effects of, compared (OA) [Cusick, Myklebust & Abram], **53:** 299
toxicity to, in adult, newborn, and fetal sheep (OA) [Morishima, Pedersen, Finster, Feldman & Covino], **58:** 342

fluroxene
erythrocyte expansion due to (OA) [Bull, Brailsford & Bull], **57:** 399

halothane
aminophylline and (CO) [Stirt & Sternick], **57:** 252
biotransformation in obese and nonobese patients (OA) [Bentley, Vaughan, Gandolfi & Cork], **57:** 94
and carotid sinus reflex (OA) [Seagard, Hopp, Donegan, Kalbfleisch & Kampine], **57:** 191
densities of, between 0° and 35° C (LR) [Korman & Ritchie], **57:** 42
depresses response of carotid body chemoreceptors to hypoxia and hypercapnia in cat (OA) [Davies, Edwards & Lahiri], **57:** 153
differential effects of, on nicotinic- and muscarinic-receptor

mediated responses of dog adrenal medulla (OA) [Sumikawa, Matsumoto, Ishizaka, Nagai, Amenomori & Amakata], **57:** 444
-epinephrine arrhythmia, determination of site of origin (OA) [Smith & Dresel], **57:** 98
erythrocyte expansion due to (OA) [Bull, Brailsford & Bull], **57:** 399
free radical formation *in vivo* and hepatotoxicity due to (OA) [Plummer, Beckwith, Bastin, Adams, Cousins & Hall], **57:** 160
MAC in humans, induction of anesthesia with midazolam decreases (CR) [Melvin, Johnson, Quasha & Eger], **57:** 238
metabolism in humans, noninvasive *in vivo* methods of assessing kinetics of (OA) [Calahan, Johnson, Eger, Sheiner, Richardson, Varner & Severinghaus], **57:** 298
and nitrous oxide, effect of, on oxidative activity of human neutrophils (OA) [Welch & Zaccari], **57:** 172
and pentobarbital, effects of, to inhibit synthesis of lung proteins (OA) [Rannels, Roake & Watkins], **57:** 87
sites of action of, on respiratory pattern and ventilatory response to CO_2 in cats (OA) [Berkenbosch, Goede, Olievier & Quanjer], **57:** 389
in study of pulmonary vascular response to nitrous oxide (OA) [Schulte-Sasse, Hess & Tarnow], **57:** 9
sympathetic ganglionic transmission effects of (OA) [Bosjnak, Seagard, Wu & Kampine], **57:** 473
thiopental in potentiation of, epinephrine-induced arrhythmias in dogs (OA) [Atlee & Malkinson], **57:** 285
hexylcaine, in comparison of bronchodilator aerosols (OA) [Downes, Hirshman & Leon], **58:** 216
inadvertent intravascular injections of, during lumbar epidural anesthesia (CO) [Kenepp & Gutsche], **54:** 172

isoflurane

aminophylline and (CO) [Stirt & Sternick], **57:** 252
in assessment of kinetics of halothane metabolism in humans (OA) [Calahan, Johnson, Eger, Sheiner, Richardson, Varner & Severinghaus], **57:** 298
erythrocyte expansion due to (OA) [Bull, Brailsford & Bull], **57:** 399
in study of free radical formation *in vivo* and hepatotoxicity due to anesthesia with halothane (OA) [Plummer, Beckwith, Bastin, Adams, Cousins & Hall], **57:** 160

lidocaine

as analgesic for experimental pain (OA) [Rowlingson, DiFazio, Foster & Carron], **52:** 20
before endotracheal intubation: intravenous or laryngotracheal? (CR) [Hamill, Bedford, Weaver & Colohan], **55:** 578
block *in vitro*, diffusional delay in (OA) [Fink & Cairns], **61:** 555
and bupivacaine, effects of, on AV conduction in isolated rat heart: modification by hyperkalemia (OA) [Komai & Rusy], **55:** 281
and bupivacaine, mixtures of, for epidural blockade (OA) [Seow, Lips, Cousins & Mather], **56:** 177
and calcium interactions of, in blocking compound action potential of frog sciatic nerve (OA) [Saito, Akutagowa, Kitahata, Stagg, Collins & Scarlock], **60:** 205
cardiac arrhythmias induced by, in sheep (OA) [Kotelko, Shnider, Dailey, Brizgys, Levinson, Shapiro, Koike & Rosen], **60:** 10
cardiotoxicity of (EV) [Marx], **60:** 3
cerebral and cardiac toxicity of, influence of serum potassium on (OA) [Avery, Redon, Schaenzer & Rusy], **61:** 134
cerebral energy state and glycolytic metabolism during infusion of in rat (OA) [Mackawa, Oshibuchi, Takeshita & Inamura], **54:** 278
CNS sensitivity to, sensitivity to pain predicts (CR) [Korbon, Rowlingson & DiFazio], **61:** 767
in comparison of bronchodilator aerosols (OA) [Downes, Hirshman & Leon], **58:** 216
as component of test dose prior to epidural block (CO) [Moore & Batra], **57:** 141
as component of test dose prior to epidural block (CO) [Morison], **57:** 140
-dextran solutions (CO) [Loder], **53:** 526
different laryngeal responses during respiratory arrest produced by, in cats (OA) [Nishino, Yonezawa & Honda], **56:** 280
differential peripheral axon block with, unit studies in cervical vagus nerve (OA) [Fink & Cairns], **59:** 182
differential slowing and block of conduction by, in individual afferent myelinated and unmyelinated axons (OA) [Fink & Cairns], **60:** 111
effect of, on ventilatory response to carbon dioxide (OA) [Gross, Caldwell, Shaw & Laucks], **59:** 521
effect of, on ventilatory response to hypoxia (OA) [Gross, Caldwell, Shaw & Apfelbaum], **61:** 662
effects of, on whole body distribution of radioactively labeled microspheres in conscious rat (OA) [Lescanic, Miller, DiFazio, Beckman & Moscicki], **55:** 269
epidural, reversal of tachyphylaxis to epidural morphine analgesia, mechanism of (CO) [Coombs], **59:** 486
esters, kinetics of, and effects of adjuvant drugs on 2-chloroprocaine hydrolysis (OA) [Raj, Ohlweiler, Hitt & Denson], **53:** 307
etidocaine, and bupivacaine in epinephrine induced arrhythmias during halothane anesthesia in dogs (OA) [Chapin, Kushins, Munson & Schick], **52:** 23
in experimental spinal anesthesia in dog, chronic model for investigation of (OA) [Feldman & Covino], **54:** 148
and halothane, epinephrine during, for closure of cleft palate (CR) [Ueda, Hirakawa & Mae], **58:** 574
inhibition of α-aminobutyric acid release from synaptosomes by (OA) [Ikeda, Dohi & Tsujimoti], **58:** 495
intravenous, high altitude and (CO) [Stevens], **53:** 349
intravenous injection of, significant sinus bradycardia following (CR) [Demczuk], **60:** 69
intravenously administered, prevents intracranial hypertension during endotracheal suctioning (CR) [Donegan & Bedford], **52:** 516
jelly, obstruction of endotracheal tube by (CR) [Uehira, Tanaka, Oda & Sato], **55:** 598
in local anesthesia of nasal passages, total spinal blockade during (CR) [Hill, Gershon & Garguilo], **59:** 144
LTA, IV *vs.* (CO) [Hamill, Bedford, Weaver & Colohan], **56:** 415
LTA, IV *vs.* (CO) [White], **56:** 414
metabolites, N-dealkylated, of response of isolated rabbit aorta to transmural electrical stimulation (OA) [Fukuda, Takeshita & Toda], **53:** 106
in mixtures of local anesthetics, is no more toxic than parent drug (OA) [deJong & Bonin], **54:** 177
and nerve conduction velocities (CO) [Fink & Cairns], **60:** 515
and nerve conduction velocities (CO) [Heavner], **60:** 514
packaging of (CO) [Crowley & Barlow], **56:** 491
packaging of (CO) [Ikeda & Schweiss], **56:** 489
paradoxical preservation of neural conduction by (OA) [Fink], **57:** 167
pentobarbital, and hypothermia, inhibition of cerebral oxygen

consumption in dog by (OA) [Astrup, Sorensen & Sorensen], **55:** 263
and pentylenetetrazol seizure thresholds in cats are not reduced after enflurane anesthesia (OA) [Heavner & Amory], **54:** 403
plasma concentrations of, and bupivacaine, after subarachnoid administration (OA) [Burm, van Kleef, Gladines, Spierdijk & Breimer], **59:** 191
potential interactions between cimetidine and, in obstetrics (CO) [Hodgkinson], **60:** 508
potential interactions between cimetidine and, in obstetrics (CO) [Moir & McMorland], **60:** 507
pre-seizure activity induced by, selective metabolic activation of hippocampus during (OA) [Ingvar & Shapiro], **54:** 33
pretreatment, failure to initiate electroconvulsive seizures following (CR) [Hood & Mecca], **58:** 379
-prilocaine cream, does it permit painfree insertion of IV catheters in children? (CR) [Hallen & Uppfeldt], **57:** 340
prophylactic, does it control cardiac arrhythmias associated with pulmonary artery catheterization? (CR) [Salmenpara, Peltola & Rosenberg], **56:** 210
protection from convulsions induced by with -aminobutyric acid (OA) [Ikeda, Dohi & Tsujimoto], **56:** 365
in study of age and epidural dose-response in adult men (CR) [Park, Hagins, Rivat & Macnamara], **56:** 318
in study of components of effective test dose prior to epidural block (CR) [Moore & Batra], **55:** 689
in study of direction of needle bevel and epidural anesthetic spread (CR) [Park, Poon, Massengale & Macnamara], **57:** 327
study of, in prevention of increase in intracranial pressure during endotracheal suctioning (CR) [White, Schlobohm, Pitts & Lindauer], **57:** 242
subarachnoid, effects of, on spinal cord and cerebral blood flow in dogs (OA) [Dohi, Matsumiya, Takeshima & Naito], **61:** 238
tetracaine, bupivacaine and etidocaine, differential sensitivities of mammalian nerve fibers to (OA) [Gissen, Covino & Gregus], **53:** 467
tetraphasic action of, on CNS electrical activity and behavior in cats (OA) [Seo, Oshima, Stevens & Mori], **57:** 451
thiopental, and hypothermia, effects of, increase in extracellular potassium in brain during circulatory arrest (OA) [Astrup, Skovsted, Gjerris & Sorensen], **55:** 256
-thiopental combination for elective cardioversion (CO) [White], **60:** 511
-thiopental combination, hypnotic effect of, in rat (LR) [Kissin & McGee], **57:** 311

toxicity, *See also under* Toxicity
in adult, newborn, and fetal sheep (OA) [Morishima, Pedersen, Finster, Sakuma, Bruce, Gutsche, Stark & Covino], **55:** 57
cerebral monoamines and, in rats (OA) [Niederlehner, DiFazio, Foster & Westfall], **56:** 184
and distribution of, in nonasphyxiated and asphyxiated baboon fetuses (OA) [Morishima & Covino], **54:** 182

mepivacaine
bupivacaine, and 2-chloroprocaine used for pudendal block, neonatal neurobehavioral effects of (OA) [Merkow, McGuinness, Erenberg & Kennedy], **52:** 309
as component of test dose prior to epidural block (CO) [Moore & Batra], **57:** 141
as component of test dose prior to epidural block (CO) [Morison], **57:** 140
in experimental spinal anesthesia in dog, chronic model for investigation of (OA) [Feldman & Covino], **54:** 148
in study of components of effective test dose prior to epidural block (CR) [Moore & Batra], **55:** 689

methoxyflurane
densities of, between 0° and 35° C (LR) [Korman & Ritchie], **57:** 42
erythrocyte expansion due to (OA) [Bull, Brailsford & Bull], **57:** 399

mixtures
are no more toxic than parent drugs (OA) [deJong & Bonin], **54:** 177
for epidural blockade (OA) [Seow, Lips, Cousins & Mather], **56:** 177
new device for topical delivery of (CO) [Kinyon], **56:** 154
precipitation of, in cerebrospinal fluid (CR) [Moore], **57:** 134

prilocaine
-lidocaine cream, does it permit painfree insertion of IV catheters in children? (OA) [Hallen & Uppfeldt], **57:** 240
methemoglobinemia induced by, in newborn infant (CR) [Duncan & Kobrinsky], **59:** 75
in study of site of action of intravenous regional anesthesia (OA) [Lillie, Glynn & Fenwick], **61:** 507

procaine
in comparison of bronchodilator aerosols (OA) [Downes, Hirshman & Leon], **58:** 216
esters, kinetics of, and effects of adjuvant drugs on 2-chloroprocaine hydrolysis (OA) [Raj, Ohlweiler, Hitt & Denson], **53:** 307
inhibition ofα-aminobutyric acid release from synaptosomes by (OA) [Ikeda, Dohi & Tsujimoti], **58:** 495
protection from convulsions induced by, with -aminobutyric acid (OA) [Ikeda, Dohi & Tsujimoto], **56:** 365
and saline for differential diagnosis of pain mechanisms (CO) [Winnie], **54:** 432

tetracaine
in experimental spinal diagnosis of pain mechanisms (CO) [Feldman & Covino], **54:** 148
inhibition of α-aminobutyric acid release from synaptosomes by (OA) [Ikeda, Dohi & Tsujimoti], **58:** 495
lidocaine, bupivacaine and etidocaine, differential sensitivities of mammalian nerve fibers to (OA) [Gissen, Covino & Gregus], **53:** 467
protection from convulsions induced by, with -aminobutyric acid (OA) [Ikeda, Dohi & Tsujimoto], **56:** 365

tetraethylammonium derivatives
mechanism of action of local anesthesia by (OA) [Curtis & Scurlock], **54:** 279
ultralong-acting (EV) [Covino], **54:** 263
ultralong-acting local anesthetics? (OA) [Scurlock & Curtis], **54:** 265

topical
lidocaine-prilocaine, does it permit painfree insertion of IV catheters in children? (OA) [Hallen & Uppfeldt], **57:** 240
and use and abuse of test doses of epidural anesthesia (CO) [Abouleish & Bourke], **61:** 344
and use and abuse of test doses of epidural anesthesia (CO) [Moore & Batra], **61:** 345

mixed
vaporization of (LR) [Bruce & Linde], **60:** 342

pediatrics
computer-assisted worksheets for (CO) [Kraemer & Stead], **60:** 520
continuous infusion of succinylcholine in, neuromuscular response of infants to (OA) [Goudsouzian & Liu], **60:** 97
and difficult pediatric laryngoscopy, modifications of Miller blade for (CO) [Diaz], **60:** 612

rectal
methohexital
for premedication in children, a dose-comparison study (CR) [Liu, Goudsouzian & Liu], **53:** 343
trace concentrations
exposure to, and health problems in dental workers (EV) [Michenfelder], **53:** 1
and urines of operating room personnel, lack of mutagens in (OA) [Baden, Kelley, Cheung & Mortelmans], **53:** 195
volatile
chloroform
effects of, on responses to ligation or coronary artery in chronically prepared rats (OA) [Jang, MacLeod & Walker], **59:** 309
in inhibition of synaptosomal GABA disposal (OA) [Cheng & Brunner], **55:** 34
minimum anesthetic concentrations of in *Drosophila melanogaster*, strain differences in (OA) [Gamo, Ogaki & Nakashima-Tanaka], **54:** 289
morphologic changes in mouse spermatozoa after exposure to, during early spermatogenesis (OA) [Land, Owen & Linde], **54:** 53
deuterated methoxyflurane
and renal function in Fischer 344 rats (LR) [Baden, Rice & Nazze], **56:** 203
diethyl ether
alterations in influenza virus pulmonary pathology induced by (OA) [Knight, Bedows, Nahrwold, Maassab, Smitka & Busch], **58:** 209
antifibrillatory effects of, in acute occlusion/reperfusion arrhythmias (OA) [Kroll & Knight], **61:** 657
antifibrillatory effects of, in acute occlusion/reperfusion arrhythmias (EV) [Lynch], **61:** 644
cardiovascular responses to verapamil during, in comparative study in dog (OA) [Kapur, Bloor, Flacke & Olewine], **61:** 156
clinical use of atracurium during (CR) [Ramsey, White, Stullken, Lineberry & Allen], **61:** 328
development of, Joseph H. Simmons as pioneer in (CO) [Brown], **61:** 349
discontinuance of use of (CR) [Duncalf], **56:** 217
effect of, on microbicidal activity of human polymorphonuclear leukocytes (LR) [Welch], **61:** 188
effects of, and pressure on aerobic metabolism on monkey kidney cells [Brabec, Bedows, Davidson & Knight], **61:** 43
effects of, on light-induced proton uptake of rhodopsin in bovine rod outer segment disk membrane (OA) [Mashimo, Tashiro & Yoshiya], **61:** 439
effects of, on light-induced proton uptake of rhodopsin in bovine rod outer segment disk membrane (OA) [Mashimo, Tashiro & Yoshiya], **61:** 439
effects of, on myocardial oxidation-reduction status assessed by NADH fluorometry (LR) [Kissin, Aultman & Smith], **59:** 447
effects of, on resistence to reabsorption of cerebrospinal fluid in dogs (OA) [Artru], **61:** 529
as first anesthesia in military surgery (SA) [Aldrete, Marron & Wright], **61:** 585
history of use of, in Robert Hinckley's "The First Operation with Ether" [Vandam], **52:** 62
influence of, on regional hemodynamics in normal and hemorrhaged rats (OA) [Seyde & Longnecker], **61:** 686
is it hepatotoxic? (EV) [Dykes], **61:** 235
isoflurane, and halothane, anesthetic potencies of, for various end points of anesthesia (LR) [Kissin, Morgan & Smith], **58:** 88
does isoflurane preserve baroreflex responsiveness better than? (CO) [Kotrly], **61:** 483
does isoflurane preserve baroreflex responsiveness better than? (CO) [Roy], **61:** 482
morphologic changes in mouse spermatozoa after exposure to, during early spermatogenesis (OA) [Land, Owen & Linde], **54:** 53
in study of involvement of endotoxin in halothane-associated liver injury (OA) [Lind, Gandolfi, Sipes & Brown], **61:** 544
dioxychlorane
mutagenicity of (LR) [Baden, Kelley & Mazze], **56:** 462
dioxyflurane
mutagenicity of (LR) [Baden, Kelley & Mazze], **56:** 462
enflurane
age and solubility of, in blood (OA) [Lerman, Gregory, Willis & Eger], **61:** 139
and alcohol, potencies of, in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, Deady & Eger], **56:** 18
alterations in influenza virus pulmonary pathology induced by (OA) [Knight, Bedows, Nahrwold, Maassab, Smitka & Busch], **58:** 209
for ambulatory surgery, neurologic state and psychomotor function following (CR) [Azar, Karambelkar & Lear], **60:** 347
as anesthesia for patients with insulinoma treatment with oral diazoxide (CR) [Burch & McLeskey], **55:** 472
anesthesia in dog, arrhythmogenic plasma levels of epinephrine during (OA) [Sumikawa, Ishizaka & Suzaki], **58:** 322
for anesthesia in humans, respiratory effects of nitrous oxide during (OA) [Lam, Clement, Chung & Knill], **56:** 298
anesthesia in humans, vecuronium-induced neuromuscular blockade during (OA) [Rupp, Miller & Gencarelli], **60:** 102
in anesthesia in study of dose-independent pharmacokinetics of fentanyl (OA) [Murphy, Hug & McClain], **59:** 537
anesthesia with, questions regarding time-dependent increase in sensitivity to *d*-tubocurarine during (CO) [Feingold], **54:** 260
anesthesia with, questions regarding time-dependent increase in sensitivity to *d*-tubocurarine during (CO) [Stanski], **54:** 261
anesthesia with, renal fluoride excretion and plasma fluoride levels during and after, are dependent on urinary *p*H (OA) [Jarnberg, Ekstrand & Irestedt], **54:** 48
anesthesia with, respiratory responses to surgical stimulation during (CR) [Rosenberg, Tobias, Bourke & Kamat], **52:** 163
anesthetic doses of, blocking adrenergic (stress) and cardiovascular responses to incision—MAC BAR (OA) [Roizen, Horrigan & Frazer], **54:** 390
anesthetic potency for, heart rate response to nociceptive stimulation as index of (CO) [Kissin & Morgan], **58:** 109
anesthetic requirements for, in quaking mouse (OA) [Koblin], **54:** 17
antiarrhythmic effect documented (CO) [Lippmann], **52:** 101
in aqueous solutions at 37°, osmolarity determines solubility of (LR) [Lerman, Willis, Gregory & Eger], **59:** 564
blood pressure control during use of, following guanethidine treatment (OA) [Miller, Beckman, Woodside, Althaus & Peach], **58:** 32
calibration curves of, using Beckman LB2® Gas Analyzer with halothane head (CO) [Goldman, Sherrill, DeCampo & Aldrete], **53:** 79

carcinogen bioassay of, in mice (OA) [Baden, Egbert & Mazze], **56:** 9
in cats, brain surface protrusion during (OA) [Drummond, Todd, Toutant & Shapiro], **59:** 288
cerebral circulation and metabolism during, in humans (OA) [Sakabe, Maekawa, Fujii, Ishikawa, Tateishi & Takeshita], **59:** 532
decreasing of concentrations of, and *d*-tubocurarine neuromuscular blockade (OA) [Gencarelli, Miller, Eger & Newfeld], **56:** 192
diagnostic activation of epileptogenis foci by (CR) [Flemming, Fitzpatrick, Fariello, Duff, Hellman & Hoff], **52:** 431
effects of, myocardial loading conditions determining (OA) [Zimpfer, Gilly, Krosi, Schlag & Steinbereithner], **58:** 159
effects of on functionally skinned myocardial fibers from rabbits (OA) [Su & Kerrick], **52:** 585
effects of, on hypoxic pulmonary vasoconstriction in rat lungs *in vitro* [Marshall, Lindgren & Marshall], **60:** 304
effects of, on myocardial oxidation-reduction status assessed by NADH fluorometry (LR) [Kissin, Aultman & Smith], **59:** 532
and enflurane-nitrous oxide anesthesia, baroreflex control of heart rate in man awake and during (OA) [Morton, Duke & Ong], **52:** 221
fatal misuse of (CO) [Lingenfelter], **55:** 603
in general anesthesia for morbidly obese patients—an examination of postoperative outcomes (OA) [Cork, Vaughan & Bentley], **54:** 310
and gentamicin, renal function in Fischer 344 rats with chronic renal impairment after administration of (OA) [Fish, Sievenpiper, Rice, Wharton & Mazze], **53:** 481
or halothane, cerebral blood volume and CSF pressure during (OA) [Artru], **58:** 533
and halothane, compared, for respiratory waveform and rebreathing in T-piece circuits (OA) [Byrick & Janssen], **53:** 371
and halothane, effect of, renovascular hypertension and (OA) [Woodside, Beckman, Althaus, Peach, Longnecker & Miller], **60:** 440
and halothane, effects of, on cell division and macromolecular synthesis in *Tetrahymena pyriformis*, compared (OA) [Conklin & Lau], **53:** 287
and halothane, effects of, on right ventricular performance during pentobarbital sodium anesthesia (OA) [Mote, Pruett & Gramling], **58:** 53
and halothane, heart rate and blood pressure changes after ORG NC45 (vecuronium) and pancuronium during (CR) [Gregoretti, Sohn & Sia], **56:** 392
halothane, isoflurane, administration of, hepatic injury following, in rats (OA) [Harper, Collins, Johnson, Eger & Biava], **56:** 14
and halothane, myocardial functional and metabolic effects of, and those of isoflurane, compared (OA) [Merin], **55:** 398
halothane, or ketamine, whole body distribution of radioactively labelled microspheres during anesthesia with (OA) [Miller, Kistner & Epstein], **52:** 296
and halothane, relationship of concentrations of, to their metabolism and elimination in man (OA) [Cahalan], **53:** 497
and halothane, relationship of concentrations of, to their metabolism and elimination in man (OA) [Cahalan, Johnson & Eger], **54:** 3
and halothane, systemic and regional blood flow distribution in unanesthetized swine and swine anesthetized with (OA) [Tranquilli, Manohar, Parks, Thurmon, Theodorakis, Benson & Chasnov], **56:** 369
hepatic necrosis induced by, in triiodothyronine-pretreated rats (OA) [Berman, Kuhnert, Phythyon & Holaday], **58:** 1
influence of, on SA node (OA) [Bosjnak & Kampine], **58:** 314
in inhibition of synaptosomal GABA disposal (OA) [Cheng & Brunner], **55:** 34
isoflurane, and methoxyflurane metabolism in rat hepatic microsomes from ethanol-treated animals (OA) [Van Dyke], **58:** 221
lidocaine and pentylenetetrazol seizure thresholds in cats are not reduced after anesthesia with (OA) [Heavner & Amory], **54:** 403
metabolism by rat hepatic microsomes of, following ethanol consumption (OA) [Rice, Dooley & Mazze], **58:** 237
metabolism of, in rats with chronic renal impairment (OA) [Rice, Sievenpiper & Mazze], **60:** 418
minimum alveolar concentrations and oil/gas partition coefficients for (OA) [Koblin, Eger, Johnson, Collins, Harper, Terrell & Speers], **54:** 314
in mixed anesthetic liquids, vaporization of, (LR) [Bruce & Linde], **60:** 342
morphologic changes in mouse spermatozoa after exposure to, during early spermatogenesis (OA) [Land, Owen & Linde], **54:** 53
neurologic changes during awakening from (OA) [Rosenberg, Clofine & Bialik], **54:** 125
and nitrous oxide, influence of, on methionine synthetase, in mice, compared (OA) [Koblin, Watson, Deady, Stokstad & Eger], **54:** 318
and nitrous-oxide anesthesia, systemic vascular responses to atracurium during (OA) [Hilgenberg, Stoelting & Harris], **58:** 242
postoperative seizure activity following (CR) [Kruczek, Albin, Wolf & Bertoni], **53:** 175
renal effects of, in patients with abnormal renal function (CR) [Mazze, Sievenpiper & Stevenson], **60:** 161
reproduction and fetal development in mice chronically exposed to (OA) [Wharton, Mazze & Wilson], **54:** 505
and spontaneous breathing with T-piece circuit (OA) [Dean & Keenan], **56:** 449
suppression of complex ventricular dysrhythmias (CR) [Smith, Kroll & Breckenridge], **56:** 148
treatment of stress-induced increases in pulmonary capillary wedge pressure using (CR) [Roizen, Hamilton & Sohn], **55:** 446
for vaginal delivery, neonatal neurobehavioral effects of (OA) [Stefani, Hughes, Shnider, Levinson, Abboud, Henrikson, Williams & Johnson], **56:** 351

ether
brain cyclic-AMP and possible mechanisms of cerebrovascular dilation by, in rats (LR) [MacMurdo, Nemoto, Nikki & Frankenberry], **55:** 435
and excitatory/inhibitory responses of midbrain reticular neurons (OA) [Shimoji, Fujioka, Fukazawa, Hashiba & Maruyama], **61:** 151
failure of keyed agent-specific filling devices and (CO) [George], **61:** 228
in inhibition of synaptosomal GABA disposal (OA) [Cheng & Brunner], **55:** 34

fluroxene
in study of myocardial functional and metabolic effects of isoflurane as compared to those of halothane and enflurane (OA) [Merin], **55:** 398
general anesthesia with, in "inducible" porphyrias (OA) [Mustajoki & Heinonen], **53:** 15

genetic susceptibility to, malignant hyperthermia in (RA) [Gronert], **53:** 395

halothane

abuse fatality (CO) [Black & Rosenblatt], **52:** 524

age and solubility of, in blood (OA) [Lerman, Gregory, Willis & Eger], **61:** 139

and alcohol, potencies of, in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, Deady & Eger], **56:** 18

alterations in influenza virus pulmonary pathology induced by (OA) [Knight, Bedows, Nahrwold, Maassab, Smitka & Busch], **58:** 209

altered distribution of pulmonary ventilation and blood flow following induction of (OA) [Dueck, Young, Clausen & Wagner], **52:** 113

anesthesia in dog, arrhythmogenic plasma levels of epinephrine during (OA) [Sumikawa, Ishizaka & Suzaki], **58:** 322

anesthesia in humans, vecuronium-induced neuromuscular blockade during (OA) [Rupp, Miller & Gencarelli], **60:** 102

anesthesia of rats with, saralasin or sodium nitroprusside following, blood flow alteration induced by (OA) [Miller & Delaney], **54:** 199

anesthesia with in dogs, lidocaine, bupivacaine, and etidocaine in epinephrine-induced arrhythmias during (OA) [Chapin, Kushins, Munson & Schick], **52:** 23

anesthetic and subanesthetic concentrations of, cerebral metabolic effects of naloxone administered with (OA) [Artru, Steen & Michenfelder], **52:** 217

anesthetic doses of, blocking adrenergic (stress) and cardiovascular responses to incision—MAC BAR (OA) [Roizen, Horrigan & Frazer], **54:** 390

anesthetic requirements for, in young children 0–1 month and 1–6 months of age (OA) [Lerman, Robinson, Willis & Gregory], **59:** 421

-anesthetized dogs, acute hyperkalemia in, effects of verapamil on (OA) [Nugent, Tinker & Moyer], **60:** 435

antagonizes effect of morphine on motor reaction threshold in rats (OA) [Kissin & Jebeles], **61:** 671

antifibrillatory effects of, in acute occlusion/reperfusion arrhythmias (OA) [Kroll & Knight], **61:** 657

antifibrillatory effects of, in acute occlusion/reperfusion arrhythmias (EV) [Lynch], **61:** 644

aortic pulse-wave contour analysis and thermodilution methods of measuring cardiac output compared during anesthesia with, in dog (OA) [English, Hodges, Sentker, Johansen & Stanley], **52:** 56

ATP depletion induced by, in platelets from patients susceptible to malignant hyperthermia (OA) [Giger & Kaplan], **58:** 47

and barbiturate, brain intracellular pH, blood flow, and blood-brain barrier differences with (OA) [Anderson, Michenfelder & Sundt], **52:** 201

beneficial effects of, on myocardial ischemia (CO) [Smith], **55:** 479

blood pressure control during use of, following guanethidine treatment (OA) [Miller, Beckman, Woodside, Althaus & Peach], **58:** 32

cardiovascular and regional blood flow changes during anesthesia with, in aged rat (OA) [Hoffman, Miletich, Albrecht, Seals & Jozefiak], **56:** 444

cardiovascular responses to verapamil during, in comparative study in dog (OA) [Kapur, Bloor, Flacke & Olewine], **61:** 156

and cerebral metabolism during porcine malignant hyperthermia (OA) [Artru & Gronert], **53:** 121

changes in lung membrane diffusing capacity for oxygen produced by (OA) [Stene, Laravuso & Burns], **56:** 97

changes in release and disposition of norepinephrine induced by, at adrenergic nerve endings, in dog saphenous vein (OA) [Lunn & Rorie], **61:** 377

comparative cardiovascular effects of verapamil, nifedipine, and diltiazem during, in swine (OA) [Kates, Zaggy, Norfleet & Heath], **61:** 10

in comparison of changes in hypoglossal and phrenic nerve activity in response to increasing depth of anesthesia in cats (OA) [Nishino, Shirhata, Yonezawa & Honda], **60:** 19

in coronary artery occlusion (EV) [Tinker], **54:** 449

and dantrolene, modification of ryanodine toxicity by, in model of malignant hyperthermia (OA) [Fairhurst, Hamamoto & Macri], **53:** 199

in dental procedure, did anesthetic mismanagement contribute to intraoperative death? (CO) [Giesecke & Hilley], **61:** 792

in dental procedure, did anesthetic mismanagement contribute to intraoperative death? (CO) [Johnson], **61:** 791

in dental procedure, did anesthetic mismanagement contribute to intraoperative death? (CO) [Marschall], **61:** 792

in dental procedure, did anesthetic mismanagement contribute to intraoperative death? (CO) [Sievenpiper & Fallacaro], **61:** 791

and depressed breathing (EV) [Hornbein], **61:** 119

differential effects of, on airway nerves and muscle (OA) [Korenaga, Takeda & Ito], **60:** 309

diminishes changes in cardiac fiber action potential duration induced by hypocarbia and hypercarbia (OA) [Stowe, Bosnjak & Kampine], **61:** 245

effect of, on baroresponse of adult and baby rabbits (OA) [Wear, Robinson & Gregory], **56:** 188

effect of, on cardiac acceleration response to somatic nerve stimulation in dogs (OA) [Kissin & Green], **61:** 708

effect of, on reflexes elicited by acute coronary artery occlusion in dog (OA) [Bachhuber, Seagard, Bosjnak & Kampine], **54:** 481

effect on cGMP and control of motor activity in mouse cerebellum (OA) [Triner, Vulliemoz, Verosky & Alpert], **54:** 193

effects of, and pressure on aerobic metabolism on monkey kidney cells (OA) [Brabec, Bedows, Davidson & Kinght], **61:** 43

and effects of naloxone on duration of sleeping time (OA) [Kraynack & Gintautas], **56:** 251

effects of, on hypoxic pulmonary vasoconstriction in rat lungs *in vitro* [Marshall, Lindgren & Marshall], **60:** 304

effects of, on light-induced proton uptake of rhodopsin in bovine rod outer segment disk membrane (OA) [Mashimo, Tashiro, & Yoshiya], **61:** 439

effects of, on responses to ligation of coronary artery in chronically prepared rats (OA) [Jang, MacLeod & Walker], **59:** 309

effects of, on schedule-controlled behavior in rat (OA) [Garfield & Vivaldi], **59:** 207

effects on ATP content and uridine uptake and phosphorylation in *Tetrahymena pyriformis* (LR) [Conklin & Lau], **61:** 78

effects on single neurons of *Aplysia californica*, hydrostatic pressure does not antagonize (OA) [Parmentier & Bennett], **53:** 9

electroencephalographic evidence of arousal in dogs from, after doxapram, physostigmine, or naloxone (OA) [Roy & Stullken], **55:** 392

elimination of, elimination of nitrous oxide accelerates (OA) [Masuda & Ikeda], **60:** 567

enflurane, and isoflurane, administration of, hepatic injury following, in rats (OA) [Harper, Collins, Johnson, Eger & Biava], **56:** 14
or enflurane, cerebral blood volume and CSF pressure during (OA) [Artru], **58:** 533
and enflurane, compared, for respiratory waveform and rebreathing in T-piece circuits (OA) [Byrick & Janssen], **53:** 371
and enflurane, effect of, renovascular hypertension and (OA) [Woodside, Beckman, Althaus, Peach, Longnecker & Miller], **60:** 440
and enflurane, effects of, on cell division and macromolecular synthesis in *Tetrahymena pyriformis*, compared (OA) [Conklin & Lau], **53:** 287
and enflurane, effects of, on right ventricular performance during pentobarbital sodium anesthesia (OA) [Mote, Pruett & Gramling], **58:** 53
and enflurane, heart rate and blood pressure changes after ORG NC45 (vecuronium) and pancuronium during (CR) [Gregoretti, Sohn & Sia], **56:** 192
and enflurane, incidence of arrhythmias in use of documented (CO) [Lippmann], **52:** 101
and enflurane, myocardial functional and metabolic effects of, and those of isoflurane, compared (OA) [Merin], **55:** 398
enflurane, or ketamine, whole-body distribution of radioactively labelled microspheres during anesthesia with (OA) [Miller, Kistner & Epstein], **52:** 296
and enflurane, relationship of concentrations of, to their metabolism and elimination in man (OA) [Cahalan, Johnson & Eger], **54:** 3
epinephrine during, for closure of cleft palate (CR) [Ueda, Hirakawa & Mae], **58:** 574
-epinephrine interactions in children (OA) [Karl, Swedlow, Lee & Downes], **58:** 142
and excitatory/inhibitory responses of midbrain reticular neurons (OA) [Shimoji, Fujioka, Fukazawa, Hashiba & Maruyama], **61:** 151
factors affecting formation of chlorotrifluoroethane and chlorodifluoroethylene from (OA) [Maiorino, Sipes, Gandolfi, Brown & Lind], **54:** 383
fentanyl, and no anesthesia, compared during coronary ligation (OA) [MacLeod, Augereau & Walker], **58:** 44
and fentanyl anesthesia, myocardial functional and metabolic responses to ischemia in swine during (OA) [Merin, Verdouw & de Jong], **56:** 84
free radicals, binding of, to fatty acids following UV irradiation (OA) [Bosterling, Trevor & Trudell], **56:** 380
-free radicals, hydroperoxide production by (OA) [Bosterling & Trudell], **60:** 209
in general anesthesia for morbidly obese patients—an examination of postoperative outcomes (OA) [Cork, Vaughan & Eger], **54:** 3
and gentamicin, renal function in Fischer 344 rats with chronic renal impairment after administration of (OA) [Fish, Sievenpiper, Rice, Wharton & Mazze], **53:** 481
and gingival retraction cord, fatality associated with use of (CR) [Hilley, Milam, Giescke & Giovannitti], **60:** 587
and glucose-stimulated insulin secretion and glucose oxidation in isolated rat pancreatic islets (OA) [Gingerich, Wright & Paradise], **53:** 219
in graded noxious heat stimulation in cat, effects on spinal neuronal responses to (OA) [Namiki, Collins, Kitihata, Kikuchi, Homma & Thalhammer], **53:** 475
greater coronary vascular reserve in dogs anesthetized with (OA) [Verrier, Edelist, Consigny, Robinson & Hoffman], **53:** 445
hemodynamic consequences of, during chronic anemia (OA) [Barrera, Miletich, Albrecht & Hoffman], **61:** 36
hepatic necrosis induced by, in triiodothyronine-pretreated rats (OA) [Wood, Berman, Harbison, Hoyle, Phythyon & Wood], **52:** 470
hepatic necrosis induced by, in triiodothyronine-pretreated rats (OA) [Berman, Kuhnert, Phythyon & Holaday], **58:** 1
and hepatitis, editorial concerning (CO) [Blogg], **56:** 407
and hepatitis, editorial concerning (CO) [Brown], **56:** 408
hepatitis induced by, pharmacogenetics and (CO) [Cousins, Gourlay, Hall & Knights], **56:** 484
hepatitis mystery, pharmacogenetics and (EV) [Brown], **55:** 93
hepatotoxicity, contrasting effects on, in phenobarbital-hypoxia and triiodothyronine model (OA) [Uetrecht, Wood, Phythyon & Wood], **59:** 196
hepatotoxicity, etiology of (CO) [Strunin, Harrison & Davies], **58:** 391
hepatotoxicity of, mechanism of, in hyperthyroid rats (CO) [Carmichael], **59:** 601
and histamine release during bronchospasm (OA) [Hermens, Edelstein, Hanifin, Woodward & Hirshman], **61:** 69
human cortical visual evoked response and (OA) [Uhl, Squires, Bruce & Stan], **53:** 273
hypotension induced by, in goat, intracerebral blood flow distribution during (OA) [Miletich, Gil, Albrecht & Zahed], **53:** 210
identification of receptor mechanism mediating epinephrine-induced arrhythmias during (OA) [Maze & Smith], **59:** 322
-induced depression of hypoxic respiratory drive, does almitrine restore? (CO) [Clergue & Derenne], **61:** 627
-induced depression of hypoxic respiratory drive, does almitrine restore? (CO) [Ward], **61:** 627
induction, increases plasma norepinephrine concentrations (OA) [Joyce, Roizen, Gerson, Grobecker, Eger & Forbes], **56:** 286
influence of, on regional hemodynamics in normal and hemorrhaged rats (OA) [Seyde & Longnecker], **61:** 686
influence of, on SA node (OA) [Bosjnak & Kampine], **58:** 314
inhibition of GABA metabolism in rat brain slices by (OA) [Cheng & Brunner], **55:** 26
in inhibition of synaptosomal GABA disposal (OA) [Cheng & Brunner], **55:** 34
inhibits metabolism of enflurane in Fischer 344 rats (OA) [Fish & Rice], **59:** 417
inhibits microbicidal oxidative activity of pulmonary alveolar macrophages (LR) [Welch], **58:** 456
interaction with epinephrine, in children versus adults (CO) [Karl], **60:** 77
interaction with epinephrine, in children versus adults (CO) [Pepple], **60:** 76
interactions among ventilation, circulation, and uptake and distribution of—use of hybrid computer multiple model (OA) [Fukui & Smith], **54:** 107, 119
and ischemic injury (CO) [Kissin & Reves], **60:** 74
isoflurane, and diethyl ether, anesthetic potencies of, for various end points of anesthesia (LR) [Kissin, Morgan & Smith], **58:** 88
and isoflurane, comparison of safety margins of (LR) [Kissin, Morgan & Smith], **58:** 556
and isoflurane, metabolic and cerebrovascular effects of, in cat, compared (OA) [Todd & Drummond], **60:** 276
does isoflurane preserve baroreflex responsiveness better than? (CO) [Kotrly], **61:** 483
does isoflurane preserve baroreflex responsiveness better than? (CO) [Roy], **61:** 482

isolated chromaffin granules exposed to, catecholamine uptake and release in (OA) [Sumikawa, Amakata, Yoshikawa, Kashimoto & Izumi], **53:** 385
lack of mutagenic effects of, in mammals *in vivo* [Basler & Rohrborn], **55:** 143
liver circulation and function during anesthesia with (OA) [Gelman, Fowler & Smith], **61:** 726
liver injury associated with, involvement of endotoxin in (OA) [Lind, Gandolfi, Sipes & Brown], **61:** 544
local versus central effect of, on carotid sinus baroreceptor function (OA) [Behnia & Koushanpour], **61:** 161
and mechanical ventilation, canine $\dot{V}_A/\dot{Q}$ distribution responses to (OA) [Dueck, Rathbun & Harrison], **55:** 127
mechanism of action of, on airways (OA) [Hirshman, Edelstein, Peetz, Wayne & Downes], **56:** 107
metabolism of, in rats with chronic renal impairment (OA) [Rice, Sievenpiper & Mazze], **60:** 418
metabolite, effects of hypersensitivity to, on halothane-induced liver damage (LR) [Ford, Coyle & Harrington], **60:** 141
metabolites, genotoxic and mutagenic assays of, in *Bacillus subtilis* and *Salmonella typhimurium* (OA) [Sachev, Cohen & Simmon], **53:** 31
metabolites, low-level binding of, to rat liver histones *in vivo* [Edmunds, Trudell & Cohen], **54:** 298
minimum anesthetic concentrations of, in *Drosophila melanogaster*, strain differences in (OA) [Gamo, Ogaki & Nakashima-Tanaka], **54:** 289
in mixed anesthetic liquids, vaporization of (LR) [Bruce & Linde], **60:** 342
-morphine interaction in rats (OA) [Kissin, Kerr & Smith], **60:** 553
morphologic changes in mouse spermatozoa after exposure to, during early spermatogenesis (OA) [Land, Owen & Linde], **54:** 53
moyamoya disease and (CO) [Sumikawa & Nagai], **58:** 204
myoglobinemia induced by, in children, inhibitory effect of intravenous *d*-tubocurarine and oral dantrolene on (CR) [Asari, Inoue, Maruta & Hirose], **61:** 332
neurologic changes during awakening from (OA) [Rosenberg, Clofine & Bialik], **54:** 125
and nitrous oxide, influence of, on methionine synthetase, in mice, compared (OA) [Koblin, Watson, Deady, Stokstad & Eger], **54:** 318
normalization of cerebral blood flow during prolonged use of (OA) [Albrecht, Miletich & Madala], **58:** 26
does not increase opioid peptides in cerebrospinal fluid of humans (OA) [Way, Hosobychi, Johnson, Eger & Bloom], **60:** 43
occupational exposure to, results in enzyme induction in anesthetists (OA) [Duvaldestin, Mazze, Noviche & Desmonts], **54:** 57
and others, systemic and regional blood flow distribution in unanesthetized swine and swine anesthetized with (OA) [Tranquilli, Manohar, Parks, Thurmon, Theodorakis, Benson & Chasnov], **56:** 380
oxygen drive to breathing during: effects of almitrine bismesilate (OA) [Clergue, Ecoffey, Derenne & Viars], **60:** 125
pancuronium, *d*-tubocurarine, and epinephrine-induced arrhythmias during anesthesia with (OA) [Schick, Chapin, Munson & Kushins], **52:** 207
recovery from, in obese patients (CO) [Ladegaard-Pedersen], **55:** 716
reductive metabolism and hepatotoxicity of, genetic differences in, in three rat strains (OA) [Gourlay, Adams, Cousins & Hall], **55:** 96
renal effects of, in patients with abnormal renal function (CR) [Mazze, Sievenpiper & Stevenson], **60:** 161
requirement during pregnancy and lactation in rats (LR) [Strout & Nahrwold], **55:** 322
requirements during hand surgery, TENS reduces (CR) [Bourke, Smith, Erickson, Gwartz & Lessard], **61:** 769
resetting of baroreflex sensitivity after induced hypotension following anesthesia with (OA) [Chen, Matteo, Fan, Schuessler & Chien], **56:** 29
reversibly inhibits human neutrophil bacterial killing (OA) [Welch], **55:** 650
sensitization of carotid sinus baroreceptors, extent and mechanism of (OA) [Seagard, Hopp, Bosjnak, Elegbe & Kampine], **58:** 432
site of selective action of, on peripheral chemoreflex pathways in humans (OA) [Knill & Clement], **61:** 121
and sodium nitroprusside, rebound hypertension after, prevented by saralasin in rats (OA) [Delaney & Miller], **52:** 154
in study of effect of thiopental induction on sympathetic activity (OA) [Joyce, Roizen & Eger], **59:** 19
in study of lung volume and $\dot{V}_A/\dot{Q}$ distribution response to intravenous versus inhalation anesthesia in sheep (OA) [Dueck, Rathbun & Greenburg], **61:** 55
in study of masseter spasm with anesthesia (CR) [Schwartz, Rockoff & Koka], **61:** 772
in study of relative hemodynamic effects of Ca^{++} entry blockers (EV) [Reves], **61:** 3
in study of whole body oxygen consumption in awake, sleeping, and anesthetized dogs (OA) [Mikat, Peters, Zindler & Arndt], **60:** 220
and the lung (EV) [Nunn], **52:** 107
trace concentrations, in operating room (SA) [Lecky], **52:** 157
treatment of stress-induced increases in pulmonary capillary wedge pressure using (CR) [Roizen, Hamilton & Sohn], **55:** 446
trifluoroacetate metabolite of, quantitative analysis of, in urine and blood by isotachophoresis (LR) [Morio, Fujii, Takiyama, Chikasue, Kikuchi & Ribarić], **53:** 56
verapamil decreases MAC for, in dogs (OA) [Maze, Mason & Kates], **59:** 327
verapamil during, in dog, epinephrine-induced arrhythmias and cardiovascular function after (OA) [Kapur & Flacke], **55:** 218
versus isoflurane, in neurosurgical patients (CO) [Azar & Thiagarajah], **61:** 786
versus isoflurane, in neurosurgical patients (CO) [Todd & Drummond], **61:** 787

isoflurane
age and solubility of, in blood (OA) [Lerman, Gregory, Willis & Eger], **61:** 139
and alcohol, potencies of, in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, Deady & Eger], **56:** 18
for ambulatory surgery, neurologic state and psychomotor function following (CR) [Azar, Karambelkar & Lear], **60:** 347
anesthesia in humans, vecuronium-induced neuromuscular blockade during (OA) [Rupp, Miller & Gencarelli], **60:** 102
anesthetic requirements for, in quaking mouse (OA) [Koblin], **54:** 17
antifibrillatory effects of, in acute occlusion/reperfusion arrhythmias (EV) [Kroll & Knight], **61:** 657
antifibrillatory effects of, in acute occlusion/reperfusion arrhythmias (EV) [Lynch], **61:** 644
in aqueous solutions at 37°, osmolarity determines solubility of (LR) [Lerman, Willis, Gregory & Eger], **59:** 564

atracurium in surgical patients receiving (OA) [Sokoll, Gergis, Mehta, Ali & Lineberry], **58:** 450
baroreceptor reflex control of heart rate during, in humans (OA) [Kotrly, Ebert, Vucins, Igler, Barney & Kampine], **60:** 173
cardiovascular responses of verapamil during, in comparative study in dog (OA) [Kapur, Bloor, Flacke & Olewine], **61:** 156
in cats, brain surface protrusion during (OA) [Drummond, Todd, Toutant & Shapiro], **59:** 288
cerebral blood volume and CSF pressure during anesthesia with, in dogs, relationship between (OA) [Artru], **60:** 575
cerebral metabolic effects of, at and above concentrations that suppress cortical electrical activity (OA) [Newberg, Milde & Michenfelder], **59:** 23
cerebral protection by, during hypoxemia or ischemia (OA) [Newberg & Michenfelder], **59:** 29
and cerebrospinal fluid pressure in neurosurgical patients (OA) [Adams, Cucchiara, Gronert, Messick & Michenfelder], **54:** 97
complex effects of, on baroreceptor reflex (CO) [Boyce & Routman], **61:** 479
complex effects of, on baroreceptor reflex (CO) [Seagard], **61:** 480
dogs anesthetized with, and conscious dogs, sympathetic efferent nerve activity in (OA) [Seagard, Hoop, Bosnjak, Osborn & Kampine], **61:** 266
effect of, on microbicidal activity of human polymorphonuclear leukocytes (LR) [Welch], **61:** 188
effects of, and pressure on aerobic metabolism on monkey kidney cells (OA) [Brabec, Bedows, Davidson & Knight], **61:** 43
effects of, on baroreceptor reflex (OA) [Seagard, Elegbe, Hopp, Bosjnak, von Cloditz, Kalbfleisch & Kampine], **59:** 511
effects of, on hypoxic pulmonary vasoconstriction in rat lungs *in vitro* [Marshall, Lindgren & Marshall], **60:** 304
effects of, on myocardial oxidation-reduction status assessed by NADH fluorometry (LR) [Kissin, Aultman & Smith], **59:** 447
effects of, on resistance to reabsorption of cerebrospinal fluid in dogs (OA) [Artru], **61:** 529
effects of, on responses to ligation of coronary artery in chronically prepared rats (OA) [Jang, MacLeod & Walker], **59:** 309
enflurane, and methoxyflurane metabolism in rat hepatic microsomes from ethanol-treated animals (OA) [Van Dyke], **58:** 221
enflurane, methoxyflurane, and sevoflurane, metabolism of, by rat hepatic microsomes, compared, following isoniazid administration (OA) [Rice, Sbordone & Mazze], **53:** 489
and excitatory/inhibitory responses of midbrain reticular neurons (OA) [Shimoji, Fujioka, Fukazawa, Hashiba & Maruyama], **61:** 151
halothane, and diethyl ether, anesthetic potencies of, for various end points of anesthesia (LR) [Kissin, Morgan & Smith], **58:** 88
halothane, and enflurane, administration of, hepatic injury following, in rats (OA) [Harper, Collins, Johnson, Eger & Biava], **56:** 14
and halothane, cerebrovascular and metabolic effects of, in cat, compared (OA) [Todd & Drummond], **60:** 276
and halothane, comparison of safety margins of (RA) [Kissin, Morgan & Smith], **58:** 556
hepatic necrosis induced by, in triiodothyronine-pretreated rats (OA) [Berman, Kuhnert, Phythyon & Holaday], **58:** 1
hepatotoxicity of, mechanism of, in hypertrophied rats (CO) [Berman, Kuhnert, Phythyon & Holaday], **59:** 601
hepatotoxicity of, mechanism of, in hypertrophied rats (CO) [Carmichael], **59:** 601
hypotension induced by, systemic and cerebral effects of, in dogs (OA) [Newberg, Milde & Michenfelder], **60:** 541
influence of, on regional hemodynamics in normal and hemorrhaged rats (OA) [Seyde & Longnecker], **61:** 686
influence of, on SA node (OA) [Bosjnak & Kampine], **58:** 314
does it preserve baroreflex responsiveness better than halothane or enflurane? (CO) [Kotrly], **61:** 483
does it preserve baroreflex responsiveness better than halothane or enflurane? (CO) [Roy], **61:** 482
liver circulation and function during anesthesia with (OA) [Gelman, Fowler & Smith], **61:** 726
long-term succinylcholine infusion during (OA) [Donati & Bevan], **58:** 552
mechanism of action of, on airways (OA) [Hirshman, Edelstein, Peetz, Wayne & Downes], **56:** 107
metabolism of, in rats with chronic renal impairment (OA) [Rice, Sievenpiper & Mazze], **60:** 418
minimum alveolar concentrations and oil/gas partition coefficients for (OA) [Koblin, Eger, Johnson, Collins, Harper, Terrell & Speers], **54:** 314
in mixed anesthetic liquids, vaporization of (LR) [Bruce & Linde], **60:** 342
morphologic changes in mouse spermatozoa after exposure to, during early spermatogenesis (OA) [Land, Owen & Linde], **54:** 53
myocardial functional and metabolic effects of, and those of halothane and enflurane, compared (OA) [Merin], **55:** 398
and nitrous oxide, influence of, on methionine synthetase, in mice, compared (OA) [Koblin, Watson, Deady, Stokstad & Eger], **54:** 318
does not increase rate of SCF production in dog (OA) [Artru], **60:** 193
potentiation of succinylcholine phase II block with (OA) [Donati & Bevan], **58:** 552
powerful coronary vasodilator in patients with coronary artery disease (OA) [Reiz, Balfors, Sorensen, Ariola, Friedman & Truedsson], **59:** 91
(RA) [Eger], **55:** 559
seizure associated with induction of anesthesia with (CR) [Poulton & Ellingson], **61:** 471
succinylcholine tachyphylaxis with (CO) [Ben-David & Gross], **59:** 365
succinylcholine tachyphylaxis with (CO) [Donati & Bevan], **59:** 366
and verapamil, hemodynamic interactions of (OA) [Kates, Kaplan, Guyton, Dorsey, Hug & Hatcher], **59:** 132
versus halothane, in neurosurgical patients (CO) [Azar & Thiagarajah], **61:** 786
versus halothane, in neurosurgical patients (CO) [Todd & Drummond], **61:** 787

methoxyflurane
age and solubility of, in blood (OA) [Lerman, Gregory, Willis & Eger], **61:** 139
and alcohol, potencies of, in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, Deady & Eger], **56:** 18
in aqueous solutions at 37°, osmolarity determines solubility of (LR) [Lerman, Willis, Gregory & Eger], **59:** 564
effects of, on responses to ligation of coronary artery in chronically prepared rats (OA) [Jang, MacLeod & Walker], **59:** 309

enflurane, and isoflurane metabolism in rat hepatic microsomes from ethanol-treated animals (OA) [Van Dyke], **58:** 0221
metabolism by rat hepatic microsomes of, following ethanol consumption (OA) [Rice, Dooley & Mazze], **58:** 237
metabolism of, in rats with chronic renal impairment (OA) [Rice, Sievenpiper & Mazze], **60:** 418
morphologic changes in mouse spermatozoa after exposure to, during early spermatogenesis (OA) [Land, Owen & Linde], **54:** 53
and renal function in Fischer 344 rats (LR) [Baden, Rice & Mazze], **56:** 203
sevoflurane
clinical characteristics and biotransformation of, in healthy human volunteers (OA) [Holaday & Smith], **54:** 100
enflurane, and isoflurane, metabolism of, by rat hepatic microsomes, compared, following isoniazid administration (OA) [Rice, Sbordone & Mazze], **53:** 489
metabolism of, in rats with chronic renal impairment (OA) [Rice, Sievenpiper & Mazze], **60:** 418
metabolism by rat hepatic microsomes of, following ethanol consumption (OA) [Rice, Dooley & Mazze], **58:** 237
methoxyflurane, enflurane, and isoflurane, metabolism of, by rat hepatic microsomes, compared, following isoniazid administration (OA) [Rice, Sbordone & Mazze], **53:** 489
mutagenicity of (LR) [Baden, Kelley & Mazze], **56:** 462
triggers malignant hyperthermia in swine (CO) [Shulman, Braverman, Ivankovich & Gronert], **54:** 259
for short outpatient surgery (CO) [Sosis], **60:** 605
for short outpatient surgery (CO) [White], **60:** 605
synthane
mutagenicity of (LR) [Baden, Kelley & Mazze], **56:** 462
trace concentrations
occupational exposure to, results in enzyme induction in anesthetists (OA) [Duvaldestin, Mazze, Nivoche & Desmonts], **54:** 57
reproduction and fetal development in mice chronically exposed to (OA) [Wharton, Mazze & Wilson], **54:** 505
and urines of operating room personnel, lack of mutagens in (OA) [Baden, Kelley, Cheung & Mortelmans], **53:** 195
trichlorethylene
effects of, on responses to ligation of coronary artery in chronically prepared rats (OA) [Jang, MacLeod & Walker], **59:** 309
morphologic changes in mouse spermatozoa after exposure to, during early spermatogenesis (OA) [Land, Owen & Linde], **54:** 53
venous air embolism, aminophylline and (CO) [Drummond], **60:** 389

Anesthetists, *See under* Anesthesiologists; Manpower
Aneurysm, *See under* Arteries; Surgery
Angiography, *See under* Equipment
Angiotensin, *See under* Polypeptides
Animal care, *See under* Research
Anisocoria, *See under* Eye(s)
Ankylosing spondylitis, *See under* Complications
Anoxia, *See under* Brain; Hypoxia
Antacids, *See also under* Gastrointestinal tract; Vomiting
particulate
neutralizing capacity of (CO) [Eyler & Zaccari], **58:** 591
neutralizing capacity of (CO) [Gibbs & Banner], **58:** 592

Antagonists
dopaminergic
in rabbit ear artery, *d*-tubocurarine and (OA) [Nelson & Steinsland], **59:** 98
miscellaneous
physostigmine
antagonizes morphine-induced respiratory depression in human subjects (OA) [Snir-Mor, Weinstock, Davidson & Bahar], **59:** 6
droperidol, and diazepam, influence of, on ketamine-induced behavior and brain regional glucose utilization in rat (OA) [Oguchi, Arakawa, Nelson & Samson], **57:** 353
effect of, on diazepam-induced ventilatory depression (OA) [Spaulding, Choi, Gross, Apfelbaum & Broderson], **61:** 551
effectiveness as antagonist of respiratory depression and psychomotor effects caused by morphine or diazepam (OA) [Bourke, Rosenberg & Allen], **61:** 523
in reversal of midazolam-induced sedation (CR) [Caldwell & Gross], **57:** 125
narcotic
nalbuphine
cardiovascular effects of, in patients with coronary or valvular heart disease (OA) [Lake, Duckworth, DiFazio, Durbin & Magruder], **57:** 498
naloxone
administered with anesthetic and subanesthetic concentrations of halothane, cerebral metabolic effects of (OA) [Artru, Steen & Michenfelder], **52:** 217
antagonism of nitrous oxide analgesia by, in man (OA) [Yang, Clark & Ngai], **52:** 414
as antagonist in alcohol intoxication (CO) [Barros & Rodriguez], **54:** 174
as antianesthetic agent, opiate system and (CO) [Gillman & Footerman], **54:** 524
doxapram, or physostigmine, electroencephalographic evidence to arousal in dogs from halothane after (OA) [Roy & Stullken], **55:** 392
effects of intravenous or subarachnoid morphine on cerebral and spinal cord hemodynamics and antagonism with, in dogs (OA) [Matsumiua & Dohi], **59:** 175
effects of, on duration of sleeping time (OA) [Kraynack & Gintuatas], **56:** 251
and fentanyl-induced postoperative rigidity (CO) [Wangler & Gupta], **59:** 604
following high-dose fentanyl for neuroanesthesia (CR) [Shupak, Harp, Stevenson-Smith, Rossi & Buchheit], **58:** 579
hypertension, and ruptured cerebral aneurysm (CO) [Estilo & Cottrell], **54:** 352
intravenous, acute pulmonary edema in healthy teenagers following (CR) [Prough, Roy, Bumgarner & Shannon], **60:** 485
and its analeptic effect (CO) [Gillman & Lichtigfeld], **58:** 287
and opiate receptor mediation of ketamine analgesia (OA) [Finck & Ngai], **56:** 291
opiate receptors and their definition by (EV) [Yaksh & Howe], **56:** 246
and phencyclidine-induced decrease in anesthetic requirement (OA) [Raja, Moscicki, Woodside & DiFazio], **56:** 275
pulmonary edema following administration of, in patient without heart disease (CR) [Taff], **59:** 586
in reversal of contractile responses of canine tracheal muscle during exposure to fentanyl and morphine (OA) [Toda & Hatano], **53:** 93
in reversal of diazepam effects (CO) [Bell], **53:** 264
in reversal of respiratory depression following diazepam (OA) [Jordon, Lehane & Jones], **53:** 293
in reversal of respiratory depression after intrathecal morphine (CR) [Paulus, Paul & Munson], **54:** 517
in studies in primate on analgetic effects associated with in-

trathecal actions of opiates, -adrenergic agonists and baclofen (OA) [Yaksh & Reddy], **54:** 457
in study of nitrous oxide withdrawal syndrome (OA) [Rupreht, Dworacek, Ducardus, Schmitz & Dzoljic], **58:** 524
naltrexone
effects of, on duration of sleeping time (OA) [Kraynack & Gintuatas], **56:** 251
opiate receptors and their definition by (EV) [Yaksh & Howe], **56:** 246
physostigmine
doxapram, or naloxone, electroencephalographic evidence of arousal in dogs from halothane after (OA) [Roy & Stullken], **55:** 392
and spinal action of narcotic analgesics (RA) [Kitahata & Collins], **54:** 153
neuromuscular relaxants
4-aminopyridine
in reversal of dantrolene sodium-induced depression of skeletal muscle in cat (OA) [Lee, Durant & Katz], **54:** 61
reversal of sympathetic ganglionic blockade in anesthetized cat (OA) [Durant, Lee & Katz], **52:** 381
antagonism by, in rabbit, following neuromuscular block by *d*-tubocurarine, effect of dantrolene on, [Flewellen, Nelson & Bee], **52:** 126
calcium
in reversal of dantrolene sodium-induced depression of skeletal muscle in cat (OA) [Lee, Durant & Katz], **54:** 61
and clinical pharmacology of BWA444U (OA) [Savarses, Ali, Basta, Sunder, Moss, Gionfriddo, Lineberry, Wastila, El-Sayad, Montague & Braswell], **58:** 333
edrophonium
as antagonist of pancuronium in infants and children (OA) [Meaken, Sweer, Bevan & Bevan], **59:** 316
clinical pharmacology of, in infants and children (OA) [Fisher, Cronnelly, Sharma & Miller], **61:** 428
do not contribute to antagonism of neuromuscular blockade in dog (OA) [Hennis, Cronnelly, Sharma, Fisher & Miller], **61:** 534
duration of action and atropine requirements in humans during halothane anesthesia (OA) [Cronnelly, Morris & Miller], **57:** 261
mixtures, heart rate following (CR) [Azar, Pham, Karambelkar & Lear], **59:** 139
neostigmine and pyridostigmine as antagonists of pancuronium (OA) [Ferguson, Egerszegi & Bevan], **53:** 390
and neostigmine, pharmacokinetics of, when antagonizing *d*-tubocurarine neuromuscular blockade in man (OA) [Morris, Cronnelly, Miller, Stanski & Fahey], **54:** 399
new look at, compared with pyridostigmine and neostigmine (EV) [Miller & Cronnelly], **59:** 84
in study of succinylcholine neuromuscular blockade in subjects homozygous for atypical plasma cholinesterase (OA) [Viby-Morgensen], **55:** 429
germine monoacetate
in reversal of dantrolene sodium-induced depression of skeletal muscle in cat (OA) [Lee, Durnat & Katz], **54:** 61
neostigmine
as antagonist of pancuronium in infants and children (OA) [Meakin, Sweet, Bevan & Bevan], **59:** 316
do not contribute to antagonism of neuromuscular blockade in dog (OA) [Hennis, Cronnelly, Sharma, Fisher & Miller], **61:** 534
and edrophonium, compared (EV) [Miller & Cronnelly], **59:** 84
and edrophonium, pharmacokinetics of, when antagonizing *d*-tubocurarine neuromuscular blockade in man (OA) [Morris, Cronnelly, Miller, Stanski & Fahey], **54:** 399
and local anesthetic esters, effects of, on 2-chloroprocaine hydrolysis (OA) [Raj, Ohlweiler, Hitt & Denson], **53:** 307
in nondepolarizing neuromuscular blockade, recovery from, twitch, tetanus and train-of-four as indices of (OA) [Ali, Savarese, Lebowitz & Ramsey], **54:** 294
pharmacology of, in infants and children (OA) [Fisher, Cronnelly, Miller & Sharma], **59:** 220
and pyridostigmine, in renal failure, prolonged effect of succinylcholine after (CR) [Bishop & Hornbein], **58:** 384
pyridostigmine and edrophonium as antagonists of pancuronium (OA) [Ferguson, Egerszegi & Bevan], **53:** 390
in reversal of dantrolene sodium-induced depression of skeletal muscles in cat (OA) [Lee, Durant & Katz], **54:** 61
in study of clinical pharmacology of ORG NC45 (Norcuron®) [Fahey, Morris, Miller, Sohn, Cronnelly & Gencarelli], **55:** 6
in study of edrophonium duration of action and atropine requirement in humans during halothane anesthesia (OA) [Cronnelly, Morris & Miller], **57:** 261
in study of succinylcholine neuromuscular blockade in subjects homozygous for atypical plasma cholinesterase (OA) [Viby-Morgensen], **55:** 429
physostigmine
reversal of diazepam (CO) [Rupreht], **53:** 180
in reversal of psilocybin intoxication (CR) [van Poorten], **56:** 313
pyridostigmine
do not contribute to antagonism of neuromuscular blockade in dog (OA) [Hennis, Cronnelly, Sharma, Fisher & Miller], **61:** 534
and edrophonium, compared (EV) [Miller & Cronnelly], **59:** 84
and neostigmine, in renal failure, prolonged effect of succinylcholine after (CR) [Bishop & Hornbein], **58:** 384
neostigmine and edrophonium as antagonists of pancuronium (OA) [Ferguson, Egerszegi & Bevan], **53:** 390
in study of edrophonium duration of action and atropine requirement in humans during halothane anesthesia (OA) [Cronnelly, Morris & Miller], **57:** 261
nicotinic
in rabbit ear artery, *d*-tubocurarine and (OA) [Nelson & Steinsland], **59:** 98
physostigmine
antagonism of diazepam by (CO) [Bidwai & Stanley], **52:** 373
antagonism of diazepam by (CO) [Ghoneim], **52:** 373
Antecubital veins, *See under* Veins
Antiarrhythmics, *See under* Heart, arrhythmia
Antibiotics
gentamicin
and enflurane, renal function in Fischer 344 rats with chronic renal impairment after administration of (OA) [Fish, Sievenpiper, Rice, Wharton & Mazze], **53:** 481
neomycin
irrigation, disturbance of consciousness and hypocalcemia after, and reversal by calcium and physostigmine (CR) [Yao, Seidman & Artusio], **53:** 69
and neuromuscular function (RA) [Sokoll & Gergis], **55:** 148
polymyxin B
sympathetic ganglionic blockade in anesthetized cat produced by, 4-aminopyridine reversal of, [Durant, Lee & Katz], **52:** 381
Anticoagulants, *See under* Blood

Anticonvulsants
phenytoin
and synaptosomal GABA disposal (OA) [Cheng & Brunner], **55:** 34
Antidepressants, *See under* Pharmacology; Sympathetic nervous system, sympathetic agents
Antidiuretic hormone, *See under* Hormones
Antiemetics, *See under* Premedication; Vomiting
Antihistamines, *See under* Histamine, antagonists
Antihypertensives, *See under* Pharmacology
Antinociceptive effect, *See under* Pain
Antipyrine, *See under* Biotransformation (drug); Metabolism
Anuria, *See under* Complications; Kidney
Aorta, *See under* Arteries
Aortic surgery, *See under* Surgery
Aortocoronary bypass surgery, *See under* Surgery
Apgar score, *See under* Anesthesia, obstetric
Apnea, *See under* Complications; Recovery; Ventilation
Apnea, sleep, obstructive, *See under* Airway
Argon, *See under* Anesthetics, gases; Gases, nonanesthetic
Arrest, cardiac, *See under* Complications; Heart, cardiac massage
Arrhythmias, *See under* Complications; Heart
Arterial catheters, *See under* Equipment
Arterial insufficiency, *See under* Complications
Arteries
abdominal aorta
and effects of infrerenal aortic cross-clamping on renal hemodynamics in humans (OA) [Gamulin, Forster, Morel, Simonet, Aymon & Favre], **61:** 394
Allen's test
neither positive or negative (CO) [Messick], **54:** 523
and safety of radial artery cannulation (OA) [Slogoff, Keats & Arlund], **59:** 42
aorta
for arterial cannulation in (CR) [Ross, Lake & Wellons], **54:** 83
thoracic, intracranial hypertension following cross-clamping of (CR) [Hantler & Knight], **56:** 146
aortic strips
relaxation of, influence of nitroprusside on, and antagonism by cyanide (OA) [Kruszyna, Kruszyna & Smith], **57:** 303
arterioles
diameter of, and tissue oxygen tension in hemorrhaged rats, anesthetic influence on (OA) [Longnecker, Ross & Silver], **57:** 177
arteriovenous malformation, therapeutic embolization of, pulmonary embolism during (CR) [Capan, Lardizabal, Sinha, Ashok, Berenstein & Turndorf], **58:** 569
brachial
insufficiency of, in arm of premature infants, stellate ganglion block for (CR) [Lagade & Poppers], **61:** 203
cannulation
aid in (CO) [Edelman], **53:** 79
method for distinguishing arterial from venous puncture in (CO) [Lichtor & Odell], **52:** 448
percutaneous, using pressure-curve-directed technique (CO) [Kondo], **61:** 639
of superficial temporal arteries, in adults (CO) [Brown, Gordon & Brown], **61:** 114
carotid
inadvertent cannulation of, another sign of (CO) [Dalal & Patel], **55:** 487
inadvertent cannulation of in cardiopulmonary bypass (CR) [Ross, Lake & Wellons], **54:** 85
puncture of, during attempted cannulation of internal jugular vein, ipsilateral mydriasis following (CR) [Forestner], **52:** 438
hepatic
hemodynamics in dog during controlled hypotension with adenosine (OA) [Lagerkranser, Irestedt, Sollevi & Andreen], **60:** 547
iliac
and cardiac output, morphine effects on, in conscious dogs (OA) [Priano & Vatner], **55:** 236
mesenteric
and cardiac output, morphine effects on, in conscious dogs (OA) [Priano & Vatner], **55:** 236
pulmonary
hemorrhage, from pulmonary artery catheterization treated with endobronchial intubation (CR) [Stein & Lisbon], **55:** 694
left main, catheter doubling in (CO) [Wilson, Moorthy, Mahomed & Vix], **60:** 266
smooth muscle of, pulmonary vascular response is dependent upon initial state of (CO) [Bagsjaw & Cox], **58:** 205
rabbit ear
d-tubocurarine as dopaminergic antagonist in (OA) [Nelson & Steinsland], **59:** 98
radial
Allen's test of (CO) [Peters & Chapin], **53:** 85
Allen's test of, neither positive or negative (CO) [Messick], **54:** 523
cannulation in patient with hyperlipoproteinemia Type V, extremity amputation following (CR) [Cannon & Meshier], **56:** 222
cannulation of, effect of method of, on postcannulation blood flow and thrombus formation (CR) [Jones, Hill, Nahrwold & Bolles], **55:** 76
cannulation of, safety of (OA) [Slogoff, Keats & Arlund], **59:** 42
catheter replacement (CO) [Brown], **55:** 333
catheterization of, pseudoaneurysm as late complication of (CR) [Wolf & Mangano], **52:** 80
and gangrene, in intraarterial thiopental (CO) [Dundee], **59:** 154
and gangrene, intraarterial injection of 2.5% thiamylal does cause (CO) [Dohi & Naito], **59:** 154
insufficiency of, in arm of premature infants, stellate ganglion block for (CR) [Lagade & Poppers], **61:** 203
methods of cannulation of, and subsequent arterial occlusion (CO) [Davis], **56:** 331
occlusion of, in aberrant circulation, modification of Allen's test to detect (CR) [Gandhi & Reynolds], **59:** 147
percutaneous cannulation of, using pressure-curve-directed technique (CO) [Kondo], **61:** 639
pseudoaneurysm of, following cannulation (CO) [McLeskey], **53:** 266
renal
and cardiac output, morphine effects on, in conscious dogs (OA) [Priano & Vatner], **55:** 236
spasm
intraoperative, topical use of sodium nitroprusside for relief of (CR) [Mathews & Mote], **61:** 776
superficial temporal
cannulation, in adults (CO) [Brown, Gordon & Brown], **61:** 114
thrombosis
and gangrene, intraarterial injection of 2.5% thiamylal does cause (CO) [Dohi & Naito], **59:** 154
lone case of gangrene in, following intraarterial thiopental 2.5% (CO) [Mark], **59:** 153
transmural stimulation
electrical, modifications by lidocaine and its N-dealkylated me-

tabolites of response of isolated rabbit aorta to (OA) [Fukuda, Takeshita & Toda], **53:** 106
ulnar
Allen's test of (CO) [Peters & Chapin], **53:** 85
Allen's test of, neither positive or negative (CO) [Messick], **54:** 523
occlusion of, simulating reflex sympathetic dystrophy (CR) [Spielman, Jawahar, Ghia, Teeple & Mandell], **54:** 343
umbilical
technique for rapid catheterization of (CR) [Cole & Rolbin], **53:** 254
Arterioles, *See under* Arteries
Arteriovenous malformation, *See under* Arteries; Brain
Arteriovenous shunt
effect of altered resistive load in, on left ventricular systolic mechanics in dogs (OA) [Prewitt & Wood], **56:** 195
Arthritis, *See under* Complications
Arthroplasty, *See under* Surgery
Artificial airway, *See under* Equipment, airway
Artificial blood, *See under* Blood
Artificial ventilation, *See under* Ventilation
Aspiration, *See under* Complications; Lung(s)
Aspiration pneumonia, *See under* Complications
Aspirin, *See under* Analgesics, nonnarcotic
Asthma, *See under* Allergy; Complications; Lung(s)
Ataractics
phenothiazines
chlorpromazine, and barbiturates, effects of, on lipid peroxidation in brain tissue *in vitro*, compared (OA) [Smith, Rehncrona & Siesjo], **53:** 186
chlorpromazine, and delayed awakening from anesthesia (CR) [Ott, Pollack, Riddick, Reisch & Epstein], **58:** 178
promethazine, and barbiturates, effects of, on lipid peroxidation in brain tissue *in vitro*, compared (OA) [Smith, Rehncrona & Siesjo], **53:** 186
Atelectasis, *See under* Complications; Lung(s)
ATP, *See under* Anesthetic techniques, hypotension, induced; Metabolism, adenosine triphosphate
Atracurium, *See under* Biotransformation (drug); Neuromuscular relaxants; Pharmacodynamics
Atracuronium, *See under* Neuromuscular relaxants
Atria, *See under* Heart
Atrial fibrillation, *See under* Complications; Heart
Atrioventricular block, *See under* Heart
Atrioventricular conduction, *See under* Heart
Atrioventricular node, *See under* Heart
Atropine, *See under* Parasympathetic nervous system; Premedication
Auditory evoked potentials, *See under* Brain; Monitoring
Autoradiography, *See also under* Measurement techniques
in evaluation of effect of fentanyl-induced seizures on subcortical brain metabolism (OA) [Tommasino, Maekawa & Shapiro], **60:** 283
Autoregulation, *See under* Brain
Autotransfusion, *See under* Transfusion
AV block, *See under* Heart
AV conduction, *See under* Heart
Awareness, *See under* Complications; Memory
Axillary block, *See under* Anesthetic techniques, regional
Axon, *See under* Nerve(s)

B

B vitamins, *See under* Vitamins
Bacteria
and bacteriologic comparison between epidural and caudal techniques (CR) [Abouleish, Orie & Amortegui], **53:** 515
filters, air (EV) [Mazze], **54:** 359
killing human neutrophil, halothane reversibly inhibits (OA) [Welch], **55:** 650
mutagenicity
assays, of urine of operating room personnel (OA) [Baden, Kelley, Cheung & Mortelmans], **53:** 195
in test of sevoflurane, synthane, dioxychlorane, and dioxyflurane (LR) [Baden, Kelley & Nazze], **56:** 462
Bain circuit, *See under* Equipment
Balanced anesthesia, *See under* Anesthesia
Balloon catheter, *See under* Equipment
Barbiturates, *See under* Anesthetics, intravenous; Hypnotics
Baroreceptor reflexes, *See under* Blood pressure; Reflexes
Baroreceptors, *See under* Receptors; Reflexes
Baroreflexes, *See under* Blood pressure; Reflexes; Sympathetic nervous system
Baroresponse, *See under* Reflexes
Barotrauma, *See under* Complications; Lung(s)
Basal ganglia, *See under* Brain
Behavior, *See under* Psychologic responses
Benzocaine, *See under* Anesthetics, local
Benzodiazepines, *See under* Anesthetics, intravenous; Anticonvulsants; Anticonvulsives; Hypnotics
Beta-adrenergic blockade, *See under* Sympathetic nervous system
Beta-adrenergic blockers, *See under* Sympathetic nervous system
Beta-adrenergic receptors, *See under* Sympathetic nervous system; Receptors
Beta blocking drugs, *See under* Sympathetic nervous system
Beta-endorphin, *See under* Protein
Beta-endorphins, *See under* Polypeptides
Bicarbonate, *See under* Acid-base equilibrium
Bicuculline, *See under* Analeptics
Bier block, *See under* Anesthetic techniques, intravenous
Binding of proteins, *See under* Acid-base equilibrium; Protein
Binding, *See under* Protein; Receptor
Biotransformation
2-amino-2-chlorobenzoic acid
and influence of 2-chloroprocaine on subsequent analgesic potency of bupivacaine (OA) [Corke, Carlson & Dettbarn], **60:** 25
enzyme induction
and halothane hepatotoxicity in phenobarbital-hypoxia and triiodothyronine model (OA) [Uetrecht, Wood, Phythyon & Wood], **59:** 196
fluorometabolites
in halothane inhibition of enflurane metabolism in Fischer 344 rats (OA) [Fish & Rice], **59:** 417
in patient with abnormal renal function (CR) [Mazze, Sievenpiper & Stevenson], **60:** 161
inhibition
in halothane inhibition of enflurane metbolism in Fischer 344 rats (OA) [Fish & Rice], **59:** 344
and liver function in rats with chronic renal impairment (OA) [Rice, Sievenpiper & Mazze], **60:** 418
man
of fentanyl, by gas chromatography-mass spectrometry (LR) [Coromaru, Matsuura, Yoshimura, Miyawaki, Sameshima, Miyao, Furuta & Baba], **61:** 73
metabolites
and influence of 2-chloroprocaine on subsequent analgesic potency of bupivacaine (OA) [Corke, Carlson & Dettbarn], **60:** 25
sexual factors
and halothane hepatotoxicity in phenobarbital-hypoxia and triiodothyronine model (OA) [Uetrecht, Wood, Phythyon & Wood], **59:** 196

Biotransformation (drug)
antipyrine
disposition in surgical patient (EV) [Vesell & Biebuyck], **60:** 529
in study of effects of parenteral nutritional regimens on oxidative drug metabolism (OA) [Pantuck, Pantuck, Weissman, Askanazi & Conney], **60:** 534
atracurium
additional information needed (CO) [Nigrovic & Koechel], **60:** 606
(CO) [Linde & Avam], **53:** 354
enzyme induction
in anesthetists, occupational exposure to halothane results in (OA) [Duvaldstin, Mazze, Nivoche & Desmonts], **54:** 57
and halothane, enflurane, and isoflurane anesthesia, hepatic injury following, in rats (OA) [Harper, Collins, Johnson, Eger & Biava], **56:** 14
and halothane hepatitis mystery (EV) [Brown], **55:** 93
in halothane-induced hepatic necrosis in triiodothyronine (OA) [Wood, Berman, Harbison, Hoyle, Phythyon & Wood], **52:** 470
by human and rat intestinal contents (OA) [Hong, Trudell, O'Neil & Cohen], **52:** 16
information of chlorofluoroethane and chlorodifluoroethylene from halothane (OA) [Maiorino, Sipes, Gandolfi, Brown & Lind], **54:** 383
and isoniazid-induced enflurane defluorination in humans (OA) [Mazze, Woodruff & Heerdt], **57:** 5
and reductive metabolism and hepatotoxicity of halothane, genetic differences in, in three rat strains (OA) [Gourlay, Adams, Cousins & Hall], **55:** 96
fentanyl
tissue redistribution of, and termination of its effects in rats (OA) [Hug & Murphy], **55:** 369
fluorometabolites
during and after enflurane anesthesia are dependent on urinary *p*H (OA) [Jarnberg, Ekstrand & Irestedt], **54:** 48
chlorotrifluoroethane and chloroethylene from halothane (OA) [Maiorino, Sipes, Gandolfi, Brown & Lind], **54:** 383
of enflurane, isoniazid induction of, in humans (OA) [Mazze, Woodruff & Heerdt], **57:** 5
ether anesthetics, metabolism by rat hepatic microsomes of, following isoniazid administration (OA) [Rice, Sbordone & Mazze], **53:** 489
genotoxic and mutagenic assays of, in *Bacillus subtilis* and *Salmonella typhimurium* (OA) [Sachev, Cohen & Simmon], **53:** 31
following halothane anesthesia in obese and non-obese patients (OA) [Bentley, Vaughan, Gandolfi & Cork], **57:** 94
of halothane, to fatty acids following UV irradiation (OA) [Bosterling, Trevor & Trudell], **56:** 480
and halothane hepatitis mystery (EV) [Brown], **55:** 93
and reductive metabolism and hepatotoxicity of halothane, genetic differences in, in three rat strains (OA) [Gourlay, Adams, Cousins & Hall], **55:** 96
trifluoroacetate, quantitative analysis of, in urine and blood by isotachophoresis (LR) [Morio, Fujii, Takiyama, Chikasue, Kikuchi & Ribaric], **53:** 56
free radical formation
genotoxic and mutagenic assays of, in *Bacillus subtilis* and *Salmonella typhimurium* (OA) [Sachev, Cohen & Simmon], **53:** 31
free radicals
in vivo and hepatotoxicity due to anesthesia with halothane (OA) [Plummer, Beckwith, Bastin, Adams, Cousins & Hall], **57:** 160
genetic factors
in reductive metabolism and hepatotoxicity of halothane, genetic differences in, in three rat strains (OA) [Gourlay, Adams, Cousins & Hall], **55:** 96
halothane
and enflurane, relationship of concentrations of, in man (OA) [Cahalan, Johnson & Eger], **54:** 3
hepatic, and factors affecting formation of chlorotrifluoroethane and chlorodifluoroethylene from halothane (OA) [Maiorino, Sipes, Gandolfi, Brown & Lind], **54:** 383
in low-level binding of halothane metabolites to rat liver histones *in vivo* [Edmunds, Trudell & Cohen], **54:** 298
inorganic fluoride, and enflurane metabolism in rat hepatic macrosomes from ethanol-treated animals (OA) [Van Kyke], **58:** 221
liver homogenate
in assays of urines of operating room personnel for mutagenic activity (OA) [Baden, Kelley, Cheung & Mortelmans], **53:** 195
in low-level binding of halothane metabolites to rat liver histones *in vivo* [Edmunds, Trudell & Cohen], **54:** 298
midazolam
effect of age, gender, and obesity on (OA) [Greenblatt, Abernethy, Locniskar, Harmatz, Limuuco & Shader], **61:** 27
nitrous oxide
(CO) [Hong, Trudell, O'Neil & Cohen], **53:** 354
in vivo, evidence for (CO) [Nunn], **54:** 527
pseudocholinesterase
atypical, response of patient with, to small intermittent succinylcholine doses (CR) [Azar & Betcher], **54:** 519
levels, and rates of chloroprocaine hydrolysis in patients receiving doses of phospholine iodide (CR) [Lanks & Sklar], **52:** 434
by rat hepatic microsomes, following ethanol consumption (OA) [Rice, Dooley & Mazze], **58:** 237
of sevoflurane, in healthy human volunteers (OA) [Holaday & Smith], **54:** 100
Bleeding, *See under* Blood, coagulation; Complications; Hemorrhage
Bleomycin, *See under* Antibiotics; Toxicity
Blisters, *See under* Complications
Block, bilateral, *See under* Complications
Block, nerve, *See under* Anesthetic techniques, regional; Nerve(s)
Blood
P_{CO_2}
and *p*H, temperature correction of, in estimating acid-base status (MI) [Ream, Reitz & Silverberg], **56:** 41
anemia
chronic, hemodynamic consequences of halothane anesthesia during (OA) [Barrera, Miletich, Albrecht & Hoffman], **61:** 36
in failure to correct nitrous oxide toxicity with folinic acid (CO) [O'Sullivan, Jennings, McCann, Ward, Scott & Weir], **57:** 558
and human bone marrow biochemical function, after nitrous oxide anesthesia (OA) [O'Sullivan, Jennings, Ward, McCann, Scott & Weir], **55:** 645
anticoagulants
coumarin
and increased heparin requirement with hypereosinophilic syndrome (CR) [Hanowell, Kim, Rattan & MacNamara], **55:** 450
heparin
activated coagulation time method for control of, during cardiopulmonary bypass (OA) [Cohen], **60:** 121
in comparison of methods of blood withdrawal and sample preparation for potassium measurements (LR) [Hill, Nahrwold, Noonan & Northrop], **53:** 60

coagulation
abnormalities, in Ehlers-Danlos syndrome, anesthetic considerations for (CR) [Dolan, Sisko & Riley], **52:** 266
disorders of, percutaneous cannulation of internal jugular vein in (CR) [Goldfarb & Lebrec], **56:** 321
and increased heparin requirement with hypereosinophilic syndrome (CR) [Hanowell, Kim, Rattan & MacNamara], **55:** 450
protamine
and activated coagulation time method for control of heparin is reliable during cardiopulmonary bypass (OA) [Cohen], **60:** 121
catastrophic pulmonary vasoconstriction associated with, in reversal of heparin (CR) [Lowenstein, Johnston, Lappas, D'Ambra, Schneider, Daggett, Akins & Philbin], **59:** 470
hypersensitivity, management of patient for cardiac surgery with (CR) [Campbell, Goldstein & Atkins], **61:** 761
coagulopathy
and emergency coronary artery bypass surgery following intracoronary streptokinase (CR) [Goldberg, Colonna-Romano & Babins], **61:** 601
disease transmission, acquires immunodeficiency syndrome (EV) [Miller & Bove], **58:** 493
disseminated intravascular coagulation, following midtrimester abortions (CR) [White, Coe, Dworsky & Margolis], **58:** 99
epidural blood patch
dural puncture and, intracerebral hemorrhage after (CO) [Benzon], **60:** 258
erythrocytes
frozen, transfusion of, serum potassium levels following (CR) [Rao, Mathru, Salem & El-Etr], **52:** 170
flow
anesthetic influences on, in normal and hemorrhaged rats (OA) [Seyde & Longnecker], **61:** 686
gas tensions
and pH, temperature correction of, in estimating acid-base status (MI) [Ream, Reitz & Silverberg], **56:** 41
glucose
monitoring of, in perioperative control of diabetes (CO) [Palumbo], **56:** 242
monitoring of, in perioperative control of diabetes (CO) [Roizen], **56:** 242
hematocrit
measurement of, in alteration of hemoglobin measurement by fluorescein (CR) [Berry, Yin & Hoyt], **53:** 67
hematopoiesis
in failure to correct nitrous oxide toxicity with folinic acid (CO) [O'Sullivan, Jennings, McCann, Ward, Scott & Weir], **57:** 558
in failure to correct nitrous oxide toxicity with folinic acid (CO) [Skacel, Hewlett & Nunn], **57:** 557
hemodilution
calculation of, in study of bypass blood flow during carotid endarterectomy (OA) [Fan, Chen, Chien & Correll], **55:** 305
during cardiopulmonary bypass with use of hemofiltration (CR) [Klineberg, Kam, Johnson, Cartmill & Brown], **60:** 478
estimating allowable blood loss (CR) [Gross], **58:** 277
hemoglobin
measurement of, alteration of, by fluorescein (CR) [Berry, Yin & Hoyt], **53:** 67
spectrophotometric absorbance of Intralipid® by (LR) [Cane, Harrison, Shapiro & Kavanaugh], **53:** 53
hemopoiesis
megaloblastic
human bone marrow biochemical function and, after nitrous oxide anesthesia (OA) [O'Sullivan, Jennings, Ward, McCann, Scott & Weir], **55:** 645
hemostasis
thrombocytopenia and altered platelet kinetics associated with prolonged pulmonary-artery catheterization in dog (OA) [Richman, Kim & Marshall], **53:** 101
heparin
for anticoagulation following placement of epidural and subarachnoid catheters: evaluation of neurologic sequelae (OA) [Rao & El-Etr], **55:** 618
increased requirement for, with hypereosinophilic syndrome (CR) [Hanowell, Kim, Rattan & MacNamara], **55:** 450
hypercoagulable
in patient with brain tumor (CR) [Weinberg, Phillipa, Twersky, Cottrell & Braunstein], **61:** 200
hypereosinophilic syndrome
increased heparin requirement with (CR) [Hanowell, Kim, Rattan & MacNamara], **55:** 450
leukocytes
histamine release to thiopental (CR) [Hirshman, Peters & Cartwright-Lee], **56:** 64
human, nitrous oxide decreases motility of, *in vitro* (LR) [Nunn & O'Morain], **56:** 45
loss
estimating allowable: corrected for dilution (CR) [Gross], **58:** 277
influence of ketamine anesthesia on cardiac output and tissue perfusion in rats subjected to (OA) [Idvall], **55:** 297
in ketamine or thiopental induction in hypovolemia swine (OA) [Weiskopf, Bogetz, Roizen & Reid], **60:** 214
low-dose enflurane does not increase, during therapeutic abortion (CR) [Sidhu & Cullen], **57:** 127
massive occult retroperitoneal, during hip surgery (CR) [Brizgys & Hicks], **58:** 473
in ulceration of inferior turbinate: complication of prolonged nasotracheal intubation (CR) [Sherry], **59:** 148
methemoglobinemia
associated with benzocaine-containing lubricant (CR) [Kellett & Copeland], **59:** 463
prilocaine-induced, in newborn infant (CR) [Duncan & Kobrinsky], **59:** 75
microbial function
of human polymorphonuclear leukocytes, effect of enflurane, isoflurane, and nitrous oxide on (LR) [Welch], **61:** 188
microbicidal function
benzodiazepines and (CO) [Gelb], **61:** 632
benzodiazepines and (CO) [Goldfarb & Belghiti], **61:** 633
and in vitro effect of benzodiazepines on polymorphonuclear leukocyte oxidative activity (LR) [Goldfarb, Belghiti, Gautero & Boivin], **60:** 57
microfilters
evaluation of (CO) [Cullen], **54:** 432
evaluation of (CO) [Linko], **54:** 431
neutrophils
benzodiazepines and (CO) [Gelb], **61:** 632
benzodiazepines and (CO) [Goldfarb & Belghiti], **61:** 633
human, bacterial killing by, halothane reversibly inhibits (OA) [Welch], **55:** 650
microbicidal function, effect of halothane and N_2O on (OA) [Welch & Zaccari], **57:** 172
and *in vitro* effect of benzodiazepines on polymorphonuclear leukocyte oxidative activity (LR) [Goldfarb, Belghiti, Gautero & Boivin], **60:** 57
partial thromboplastin time
and hypercoagulability in patient with brain tumor (CR) [Weinberg, Phillips, Twersky, Cottrell & Braunstein], **61:** 200

pH
and P_{CO_2}, temperature correction of, in estimating acid-base status (MI) [Ream, Reitz & Silverberg], **56:** 41
plasma protein
calculation of, in study of bypass blood flow during carotid endarterectomy (OA) [Fan, Chen, Chien & Correll], **55:** 305
platelets
aggregation, in patients susceptible to malignant hyperthermia (OA) [Rosenberg, Fisher, Reed & Addonizio], **55:** 621
altered kinetics of, and thrombocytopenia, associated with prolonged pulmonary-artery catheterization in dog (OA) [Richman, Kim & Marshall], **53:** 101
halothane-induced ATP depletion in, from patients susceptible to malignant hyperthermia (OA) [Giger & Kaplan], **58:** 347
release of serotonin, in patients susceptible to malignant hyperthermia (OA) [Rosenberg, Fisher, Reed & Addonizio], **55:** 621
thrombocytopenia, associated with Swanz-Ganz catheterization (CR) [Kim, Richman & Marshall], **53:** 261
polymorphonuclear leukocytes
human, microbicidal activity of, effect of enflurane, isoflurane, and nitrous oxide on (LR) [Welch], **61:** 188
products, acquired immunodeficiency syndrome (AIDS) and (EV) [Miller & Bove], **58:** 493
protamine
anaphylactic reaction to, in patient allergic to fish (CR) [Knape, Schuller, de Haan, de Jong & Bovill], **55:** 324
replacement
and estimation of allowable blood loss (CR) [Gross], **58:** 277
with frozen erythrocytes, serum potassium levels following (CR) [Rao, Mathru, Salem & El-Etr], **52:** 170
new fine-screen filters in, comparative evaluation of (OA) [Cullen, Kunsman, Caldera, Dennis & Valeri], **53:** 3
stored
simple method for sealing used blood bags for (CO) [Dhamee & Bardeen-Henschel], **54:** 92
transfusion of, new fine-screen filters in, comparative evaluation of Cullen, Kunsman, Caldera, Dennis & Valeri, **53:** 3
transfusion, *See also under* Transfusion
needs, calculations for predicting (CO) [Cassady, Patel & Epstein], **59:** 491
used blood bags in, simple method for sealing (CO) [Dhamee & Bardeen-Henschel], **54:** 92
viscosity
calculation of, in study of bypass blood flow during carotid endarterectomy (OA) [Fan, Chen, Chien & Correll], **55:** 305
vascular hindrance, and oxygen utilization in dog, effects of sodium nitroprusside on (OA) [Fan, Kim, Simchon, Chen, Schuessler & Chien], **53:** 113
volume
expansion
and effect of positive end-expiratory pressure ventilation (PEEP) on cerebral blood flow and cerebrospinal fluid pressure in goats (OA) [Doblar, Santiago, Kahn & Edelman], **55:** 244
in ketamine or thiopental induction in hypovolemia swine (OA) [Weiskopf, Bogetz, Roizen & Reid], **60:** 214
and shock (SM), **52:** 379
Blood flow, *See also under* Brain; Heart; Kidney; Lung(s); Measurement techniques; Spinal cord
regional
comparison of effects of *d*-tubocurarine, pancuronium, and vecuronium on (OA) [Saxena, Dhasmana & Prakash], **59:** 102
Blood flow, brain, *See under* Brain
Blood flow, cerebral, *See under* Brain
Blood patch, *See under* Blood
Blood pressure
adenosine
controlled hypotension with, in cerebral aneurysm surgery (OA) [Sollevi, Lagerkranser, Irestedt, Gordon & Lindquist], **61:** 400
autoregulation
cerebral vascular response to, fentanyl and, in dogs (OA) [McPherson & Traystman], **60:** 180
baroreceptor reflexes
complex effects of isoflurane on (CO) [Boyce & Routman], **61:** 479
complex effects of isoflurane on (CO) [Seagard], **61:** 480
in control of heart rate during isoflurane anesthesia in humans (OA) [Kotrly, Ebert, Vucins, Igler, Barney & Kampine], **60:** 173
control of heart rate during morphine sulfate, diazepam N_2O/O_2 anesthesia in humans (OA) [Kotrly, Ebert, Vucins, Roerig & Kampine], **61:** 558
halothane and (OA) [Seagard, Hopp, Donegan, Kalbfleisch & Kampine], **57:** 191
halothane sensitization of (OA) [Seagard, Hopp, Bosnjak, Elegbe & Kampine], **58:** 432
does isoflurane preserve responsiveness of, better than halothane or enflurane? (CO) [Kotrly], **61:** 483
does isoflurane preserve responsiveness of, better than halothane or enflurane? (CO) [Roy], **61:** 482
control
in infants, and baroresponse by halothane (CO) [Friesen], **58:** 387
in infants, and baroresponse by halothane (CO) [Ware, Robinson & Gregory], **58:** 387
in resetting of baroreflex sensitivity after induced hypotension (OA) [Chen, Matteo, Fan, Schuessler & Chien], **56:** 29
drug effects
and anesthetic requirements for halothane in young children 0–1 month and 1–6 months of age (OA) [Lerman, Robinson, Willis & Gregory], **59:** 421
in canine model of acute coronary artery stenosis: effects of deliberate hypotension (OA) [Hickey, Verrier, Baer, Vlahakes, Fein & Hoffman], **59:** 226
of chloroprocaine vs. bupivacaine for lumbar epidural analgesia for elective cesarean section (OA) [James, Dewan, Floyd, Wheeler, Grant, Rhyne & Westmoreland], **52:** 488
and clinical pharmacology of edrophonium in infants and children (OA) [Fisher, Cronnelly, Sharma & Miller], **61:** 428
during coronary artery surgery, with sufentanil-O_2 and with fentanyl-O_2, compared (OA) [de Lange, Boscoe, Stanley & Pace], **56:** 112
of *d*-tubocurarine in humans, role of histamine in (OA) [Moss, Rosow, Savarese, Philbin & Kniffen], **55:** 19
and histamine release during morphine and fentanyl anesthesia (OA) [Rosow, Moss, Philbin & Savarese], **56:** 97
in ketamine or thiopental induction in hypovolemia swine (OA) [Weiskopf, Bogetz, Roizen & Reid], **60:** 214
after ORG NC45 (vecuronium) and pancuronium during halothane and enflurane anesthesia (CR) [Gregoretti, Sohn & Sia], **56:** 392
in patients undergoing coronary artery bypass grafting (OA) [Morris, Cahalan, Miller, Wilkinson, Quasha & Robinson], **58:** 438
photodegradation of sodium nitroprusside in: biologic activity and cyanide release (OA) [Arnold, Longnecker & Epstein], **61:** 254
and prevention of rigidity during fentanyl-oxygen induction of

anesthesia (CR) [Hill, Nahrwold, Rosayro, Knight, Jones & Bolles], **55:** 452
relevance of plasma histamine levels to hypotension (CO) [Beaven], **57:** 425
relevance of plasma histamine levels to hypotension (CO) [Hirshman, Downes & Butler], **57:** 424
relevance of plasma histamine levels to hypotension (CO) [Philbin, Moss, Rosow & Savarese], **57:** 425
hypertension
assessment of, during coronary artery surgery, with sufentanil-O_2 and with fentanyl-O_2, compared (OA) [de Lange, Boscoe, Stanley & Pace], **56:** 112
in chloroprocaine vs. bupivacaine for lumbar epidural analgesia for elective cesarean section (OA) [James, Dewan, Floyd, Wheeler, Grant, Rhyne & Westmoreland], **52:** 488
and ED_{50} of alfentanil for induction of anesthesia in unpremedicated young adults (OA) [McDonnell, Bartkowski & Williams], **60:** 136
gravid ewes, effects of nitroglycerin and nitroprusside on uterine vasculature of (OA) [Wheeler, James, Meis, Rose, Fishburne, Dewan, Urban & Greiss], **52:** 390
lidocaine before endotracheal intubation influencing route of administration and (CR) [Hamill, Bedford, Weaver & Colohan], **55:** 578
naloxone
and ruptured cerebral aneurysm (CO) [Estilo & Cottrell], **54:** 352
following nitroprusside and hepatic blood flow (CO) [Gelman & Patel], **54:** 90
following nitroprusside (CO) [Gardner, Parker & Wong], **52:** 525
oxytocic drugs and (CO) [Barros], **57:** 70
as predictor of myocardial ischemia during halothane anesthesia for coronary-artery revascularization (OA) [Lieberman, Okine, Jobes & Schwartz], **59:** 36
prevention of, following coronary-artery operations, preoperative stellate-ganglion blockade in (CO) [Kopman], **52:** 454
prevention of, following coronary-artery operations, preoperative stellate-ganglion blockade in (CO) [Stanski & Sheiner], **52:** 454
prevention of, in endotracheal intubation, morphine-N_2O and fentanyl-N_2O anesthesia studies in (CR) [Bennett & Stanley], **52 :** 520
pulmonary, nitroglycerin and nitroprusside in (OA) [Pearl, Rosenthal & Ashton], **58:** 514
in rats, cerebrovascular and metabolic effects of SNP induced hypotension in (OA) [Hoffman, Albrecht, Miletich, Holland, Anderson & Seals], **56:** 427
in rats, cerebrovascular response to hypotension in (OA) [Hoffman, Miletich & Albrecht], **58:** 326
refractory, during coarctectomy (CR) [Wilkinson & Clark], **57:** 540
after sternectomy, high-dose fentanyl and (CR) [Edde], **55:** 444
hypotension
assessment of, during ketamine anesthesia in rats subjected to hemorrhage (OA) [Idvall], **55:** 297
canine model of acute coronary artery stenosis in study of effects of (OA) [Hickey, Verrier, Baer, Vlahakes, Fein & Hoffman], **59:** 226
catecholamine and renin-angiotensin response during (CR) [Knight, Lane, Hensinger, Bolles & Bjoraker], **59:** 248
cerebral protection by isoflurane during (OA) [Newberg & Michenfelder], **59:** 29
controlled
with adenosine in cerebral aneurysm surgery (OA) [Sollevi, Lagerkranser, Irestadt, Gordon & Lindquist], **61:** 400
sodium nitroprusside-induced, aminophylline potentiates, in dog (OA) [Pearl, Rosenthal, Murad & Ashton], **61:** 712
in hemorrhage and cardiac arrest during laparoscopic tubal ligation (CR) [Chapin, Hurlbert & Scheer], **53:** 342
hemorrhagic and pharmacologic, effects of, on cerebral oxygen utilization and blood flow (OA) [Grubb & Raichle], **56:** 3
in hypertensive rats, cerebrovascular response to (OA) [Hoffman, Miletich & Albrecht], **58:** 326
and increased cerebrospinal fluid pressure, in awake and anesthetized humans, following nitroglycerin administration (OA) [Dohi, Matsumoto & Takahashi], **54:** 511
induced by SNP in hypertensive rats, cerebrovascular metabolic effects of (OA) [Hoffman, Albrecht, Miletich, Holland, Anderson & Seals], **56:** 427
isoflurane-induced, systemic and cerebral effects of, in dogs (OA) [Newberg, Milde & Michenfelder], **60:** 541
may have profound effect on liver (CO) [Bagshaw], **59:** 168
following nitroprusside and hepatic blood flow (CO) [Geoman & Patel], **54:** 90
as predictor of myocardial ischemia during halothane anesthesia for coronary-artery revascularization (OA) [Lieberman, Orkin, Jobes & Schwartz], **59:** 36
trimethaphan, brain electrical activity and organ integrity during (OA) [Dong, Bledsoe, Eng, Heavner, Shaw, Hornbein & Anderson], **58:** 61
measurement, *See also under* Measurement techniques
in critically ill neurons, automated oscillometric technique for estimating (CR) [Kimble, Darnall, Yelderman, Ariagno & Ream], **54:** 423
Dinamap in, modification of, for mechanical sphygmomanometry (CO) [Riopelle], **57:** 245
direct-dynamic response requirements (MI) [Gardner], **54:** 227
factitiously low, from Dinamap (CO) [Roy, Morgan & Beamer], **59:** 258
in ketamine or thiopental induction in hypovolemia swine (OA) [Weiskopf, Bogetz, Roizen & Reid], **60:** 214
and potential deficiencies in modifying the Dinamap for use in neonate (CO) [Kochansky], **60:** 171
as predictor of myocardial ischemia during halothane anesthesia for coronary-artery revascularization (OA) [Lieberman, Orkin, Jobes & Schwartz], **59:** 36
radial artery catheter placement of (CO) [Brown], **55:** 713
terminology in (EV) [Michenfelder], **56:** 245
following midazolam or thiopental in humans with brain tumors (CR) [Giffin, Cottrell, Shwiry, Hartung, Epstein & Lim], **60:** 491
monitoring
automatic noninvasive, hazard of (CO) [Betts], **55:** 713
neonatal, Dinamap adaptation for (CO) [Zmyslowski & Lena], **58:** 583
peripheral vascular resistance
effect of sodium nitroprusside on, in canine oleic acid pulmonary edema (OA) [Prewitt & Wood], **55:** 537
in ketamine or thiopental induction in hypovolemia swine (OA) [Weiskopf, Bogetz, Roizen & Reid], **60:** 214
measurements, during acute coronary artery occlusion and halothane anesthesia in dog (OA) [Bachhuber, Seagard, Bosnjak & Kampine], **54:** 481
in unanesthetized swine and swine anesthetized with halothane + nitrous oxide, halothane, or enflurane (OA) [Tranquilli, Manohar, Parks, Thurman, Theodorakis, Benson & Chasnov], **56:** 369
regulation
and local versus central effect of halothane on carotid sinus baroreceptor function (OA) [Behnia & Koushanpour], **61:** 161

stump pressure
and bypass blood flow during carotid endarterectomy (OA) [Fan, Chen, Chien & Correll], **55:** 305
vascular resistance
and histamine release during morphine and fentanyl anesthesia (OA) [Rosow, Moss, Philbin & Savarese], **56:** 93
Blood pressure, *See also under* Monitoring baroreceptor reflexes
effects of isoflurane on (OA) [Seagard, Elegbe, Hopp, Bosnjak, von Colditz, Kalbfleisch & Kampine], **59:** 511
Blood solubility, *See under* Solubility
Blood transfusion, *See under* Transfusion
Blood volume, *See under* Brain
Blood-brain barrier, *See under* Brain
Body temperature, *See under* Temperature
Body weight, *See under* Complications, obesity; Fluid balance; Pharmacokinetics, uptake
Book reviews
Adams, A. P., and Hahn, C. E. W., *Principles and Practice of Blood Gas Analysis*, **60:** 84
Adams, A. P., and Hahn, C. E. W., *Principles and Practice of Blood-Gas Analysis*, **52:** 289
Aldrete, J. A., and Stanley, T. H. (eds.), *Trends in Intravenous Anesthesia*, **53:** 526
Armstrong, P. W., and Bagrie, R. S. (eds.), *Hemodynamic Monitoring in the Critically Ill*, **54:** 442
Atkinson, R. S., and Hewer, C. L. (eds.), *Recent Advances in Anaesthesia and Analgesia, No. 14*, **58:** 398
Basmajian, J. V. (ed.), *Biofeedback-Principles and Practice for Clinicians*, **52:** 196
Beers, R. F., Jr., and Bassett, E. G. (eds.), *Mechanisms of Pain and Analgesic Compounds*, **53:** 90
Benford, R. J., *The Heritage of Aviation Medicine*, **52:** 104
Benjamin, B., *Atlas of Paediatric Endoscopy*, **57:** 254
Bevan, D. R., *Renal Function in Anaesthesia and Surgery*, **53:** 528
Blitt, C. D., *Catheterization Techniques for Invasive Cardiovascular Monitoring*, **58:** 111
Bonica, J. J., and Ventafridda, V. (eds.), *Advances in Pain Research and Therapy*, **52:** 104
Bowman, W. C., *Pharmacology of the Neuromuscular Function*, **57:** 71
Britt, B. A. (ed.), *Malignant Hyperthermia*, **54:** 357
Brown, B. R., Jr. (ed.), *Anesthesia and the Patient with Heart Disease*, **53:** 358
Brown, T. C. K., and Fisk, G. C., *Anaesthesia for Children*, **53:** 358
Bruce, D. L., *Functional Toxicity of Anesthesia*, **54:** 442
Calvey, T. N., and Williams, N. E., *Principles and Practice of Pharmacology for Anesthetics*, **60:** 623
Carrie, L. E. S., and Simpson, P. J., *Understanding Anesthesia*, **59:** 492
Cohen, E. N., *Anesthetic Exposure in the Workplace*, **53:** 526
Conahan, T. J., III, *Cardiac Anesthesia*, **57:** 433
Cooper, P. R., *Head Injury*, **59:** 268
Cottrell, J. E., and Trundoff, H., *Anesthesia and Neurosurgery*, **53:** 91
Cousins, M. J., and Bridenbaugh, P. O., *Neural Blockade in Clinical Anesthesia and Management of Pain*, **55:** 490
Cowley, R. A., and Dunham, C. M. (eds.), *Shock Trauma/Critical Care Manual: Initial Assessment and Management*, **58:** 112
Cowley, R. A., and Trump, B. F. (eds.), *Pathophysiology of Shock, Anoxia, and Ischemia*, **58:** 112
deKock, M. A., Nadel, J. A., and Lewis, C. M., *Mechanisms of Airways Obstruction in Human Respiratory Disease*, **52:** 197
DeKornfeld, T. J., *Selected Papers in Respiratory Therapy*, **52:** 459
Dobkin, A. B., *Development of New Volatile Inhalation Anaesthetics, Volume 6,*, **52:** 290
Drain, C. B., and Shipley, S. B., *The Recovery Room,*, **52:** 104
Dundee, J. W., *Intravenous Anaesthetic Agents*, **53:** 90
Echenhoff, J. E., Bart, A. J., Brunner, E. A., Holley, H. S., and Linde, H. W. (eds.), *The Year Book in Anesthesia 1980*, **56:** 77
Eckenhoff, J. E., Bart, A. J., Brunner, E. A., Holley, H. S., and Linde, H. W. (eds.), *Year Book of Anesthesia, 1979*, **53:** 91
Eger, E. I., II, *Isoflurane (Forane®)*, **55:** 610
Erikkson, E. (ed.), *Illustrated Handbook in Local Anesthesia*, **54:** 176
Fischbach, D. P., and Fogdall, R. P., *Coagulation: The Essentials*, **57:** 71
Ganong, W. F., *Review of Medical Physiology*, **52:** 197
George, R. B., Light, R. W., and Matthay, R. A., *Chest Medicine*, **61:** 233
Goldman, M. J., *Principles of Clinical Electrocardiography*, **52:** 195
Goodman, L. R., Putnam, C. F., and 18 contributors, *Intensive Care Radiology: Imaging of the Critically Ill, Second Edition*, **60:** 268
Gordon, R. J., Ravin, M. B., and Daicoff, G. R., *Cardiovascular Physiology for Anesthesiologists*, **52:** 459
Gorsky, B. H., *Pain, Origin and Treatment*, **57:** 72
Gothard, J. W. W., and Branthwaite, M. A., *Anaesthesia for Thoracic Surgery*, **58:** 304
Gravenstein, J. S., Newbower, R. S., Ream, A. K., and Smith, N. T. (eds.), *Essential Noninvasive Monitoring in Anesthesia*, **54:** 357
Gray, T. C., Nunn, J. F., and Utting, J. E. (eds.), *General Anesthesia*, **53:** 526
Greene, N. M., *Key Words in Anesthesiology*, **54:** 176
Greene, N. M., *Physiology of Spinal Anesthesia, Third Edition*, **56:** 243
Gregory, G. A. (ed.), *Respiratory Failure in the Child, Clinics in Critical Care Medicine, Volume 3*, **57:** 559
Grodins, F. S., and Yamashiro, S. M., *Respiratory Function of the Lung and Its Control*, **53:** 182
Grundy, L., and Gravenstein, J. S. (eds.), *The Quality of Care in Anesthesia*, **58:** 207
Guenther, C. A., and Welch, M. H., *Pulmonary Medicine, Second Edition*, **58:** 111
Healy, G. B., and McGill, T. J. I. (eds.), *Laryngo-Tracheal Problems in the Pediatric Patient*, **53:** 359
Hirsh, R. A., Forrest, W. H., Jr., Orkin, F. K., and Woolman, H. (eds.), *Health Care Delivery in Anesthesia*, **53:** 358
Horowitz, N. H., and Rizzoli, H. V., *Postoperative Complications of Intracranial Neurological Surgery*, **59:** 613
Huch, R., Huch, A., and Lubbers, D. W. (eds.), *Transcutaneous* P_{O_2}, **57:** 559
Huth, E. J., *How to Write and Publish Papers in the Medical Sciences*, **59:** 170
Israel, J. S., and DeKornfeld, T. J., *Recovery Room Care*, **57:** 254
James, F. M., III, and Wheeler, A. S. (eds.), *Obstetric Anesthesia: The Complicated Patient*, **57:** 433
Kacmarek, R. M., Dimas, S., and Mack, C. W., *The Essentials of Respiratory Therapy*, **52:** 198
Kaplan, J. A. (ed.), *Thoracic Anesthesia*, **59:** 170
Katz, J., Benumof, J., and Kadis, L. B., *Anesthesia and Uncommon Diseases*, **57:** 72
Katzung, B. G. (ed.), *Basic and Clinical Pharmacology*, **60:** 268
Kharkevich, D. A. (ed.), *Pharmacology of Ganglionic Transmission*, **53:** 438
Kimmich, H. P. (ed.), *Monitoring of Vital Parameters During Extracorporeal Circulation*, **57:** 559
Kitihata, L. M., and Collins, J. G. (eds.), *Narcotic Analgesics in Anesthesiology*, **57:** 254
Lear, M. W., *Heartsounds*, **56:** 77
Lebowitz, P. W., Newburg, L. A., and Gillette, M. T. (eds.), *Clinical Anesthesia Procedures of the Massachusetts General Hospital*, **61:** 118

Ledingham, I. M., and Hanning, C. D. (eds.), *Recent Advances in Critical Care Medicine*, **61:** 641
Lefer, A. M., Saba, T. M., and Mela, L. M. *Advances in Shock Research*, **52:** 197
Lipton, S., *Relief of Pain in Clinical Practice*, **53:** 528
Loh, H. H., and Ross, D. H. (eds.), *Neurochemical Mechanisms of Opiates and Endorphins*, **52:** 530
Lunn, J. N., *Lecture Notes on Anaesthetics*, **53:** 92
Lunn, J. N., *Lecture Notes on Anaesthetics*, **56:** 416
Martz, K. V., Joiner, J., and Shepherd, R. M., *Management of the Patient-Ventilator System*, **52:** 530
Marx, G. F., and Bassell, G. M., *Obstetric Analgesia and Anesthesia*, **54:** 532
Marx, G. F. (ed.), *Clinical Management of Mother and Newborn*, **52:** 289
Mathieu, A., and Burke, J. F. (eds.), *Infection and the Perioperative Period*, **61:** 485
Mayer, B. W., *Pediatric Anesthesia*, **57:** 71
Miller, R. D. (ed.), *Anesthesia*, **57:** 147
Molitch, M. E., *Management of Medical Problems in Surgical Patients*, **57:** 559
Mushin, W. W., Rendell-Baker, L., Thompson, P. W., and Mapelson, W. W., *Automatic Ventilation of the Lungs, 3rd Edition*, **54:** 175
Nari, S., *Computers in Critical Care and Pulmonary Medicine-Volume III*, **61:** 486
Netter, F. H., *Respiratory System*, **52:** 459
Nunn, J. F., *Applied Respiratory Physiology*, **52:** 531
Orkin, F. K., and Cooperman, L. H., *Complications in Anesthesiology*, **61:** 232
Pallot, D. J., *Control of Respiration*, **61:** 233
Patil, V., Stehling, L., and Zauder, H., *Fiberoptic Endoscopy in Anesthesia*, **60:** 623
Petty, C., *Research Techniques in the Rat*, **58:** 111
Petty, T. L., *Intensive and Rehabilitative Respiratory Care*, **58:** 304
Prakash, O. (ed.), *Applied Physiology in Clinical Respiratory Care*, **60:** 393
Prys-Roberts, C. (ed.), *The Circulation in Anaesthesia. Applied Physiology and Pharmacology*, **53:** 527
Radnay, P. A., and Nagashima, H. (eds.), *Anesthetic Considerations for Pediatric Cardiac Surgery* (International Anesthesiology Clinics), **54:** 175
Ream, A. K., and Fogdall, R. P., *Acute Cardiovascular Management*, **61:** 485
Ropper, A. L., Kennedy, S. K., and Zervas, N. T. (eds.), *Neurological and Neurosurgical Intensive Care*, **59:** 171
Rosen, P., and Sternbach, G. I., *Atlas of Emergency Medicine*, **52:** 288
Rugheimer, E., and Zindler, M. (eds.), *Anesthesiology-Proceedings of the 7th World Congress of Anaesthesiologists: Hamburg, September 14–21, 1980*, **56:** 77
Ruppel, G., *Manual of Pulmonary Function Testing*, **52:** 195
Scheck, P. A., Sjostrand, U. H., and Smith, R. B., *Perspectives in High Frequency Ventilation*, **61:** 234
Schultz, R. C., *Outpatient Surgery*, **52:** 530
Schumer, W., Spitzer, J. J., and Marshall, B. E., *Advances in Shock Research*, **52:** 197
Scurr, C., and Feldman, S., *Scientific Foundations of Anaesthesia*, **59:** 268
Shapiro, B. A., Harrison, R. A., and Trout, C. A., *Clinical Applications of Respiratory Care*, **53:** 272
Shires, G. T., *Care of the Trauma Patient*, **52:** 530
Shoup, C. A., and McHenry, R. N., *Laboratory Exercises in Respiratory Therapy*, **52:** 289
Sindermann, C. J., *Winning the Games Scientists Play*, **59:** 613
Slack, S. J., and DeKornfeld, T. J., *Anesthesiology, Continuing Education Review, Second Edition*,, **61:** 118
Smith, N. T., Miller, R. S., and Corbascio, A. N. (eds.), *Drug Interactions in Anesthesia*, **56:** 159
Smith, W. D. A., *Under the Influence. A History of Nitrous Oxide and Oxygen Anesthesia*, **59:** 269
Snider, S. M., and Levinson, G., *Anesthesia for Obstetrics*, **53:** 182
Snow, J. C., with nine contributors, *Manual of Anesthesia*, **60:** 84
Stanski, D. R., and Watkins, W. D., *Drug Disposition in Anesthesia*, **59:** 170
Stehling, L. C., *Common Problems in Pediatric Anesthesia*, **59:** 171
Stevens, A. J. (ed.), *Preparation for Anaesthesia*, **58:** 207
Steward, D. J., *Manual of Pediatric Anesthesia*, **53:** 272
Stoelting, R. K., and Dierdorf, S. F., *Anesthesia and Co-existing Disease*, **60:** 393
Strauch, M. J., *Pharmacology of Respiratory Therapy Medications*, **52:** 288
Sykes, M. K., Vickers, M. D., Hull, C. J., and Winterburn, P. J., *Principles of Clinical Measurement*, **56:** 159
Sykes, W. S., Ellis, R. H. (eds.), *Essays on the First Hundred Years of Anaesthesia, Vol. III*, **59:** 172
Tarhan, S., *Cardiovascular Anesthesia and Postop Care*, **59:** 370
Tarrow, A. B., and Erickson, J. C., III, *Basic and Clinical Sciences in Anesthesiology*, **55:** 194
Trickey, D. L., and Sheikj, F. (associate contributor), *Self-Assessment of Current Knowledge in Anesthesiology, 2nd Edition*, **54:** 175
Trubuhovich, R. V. (ed.), *Management of Acute Intracranial Disaster*, **52:** 288
Utley, J. R. (with 29 contributors), *The Pathophysiology and Techniques of Cardiopulmonary Bypass-Volume II*, **61:** 486
Vandam, L. D., *To Make the Patient Ready for Anesthesia Medical Care of the Surgical Patient*, **61:** 232
Vandam, L. D. (ed.), *To Make the Patient Ready for Anesthesia: Medical Care of the Surgical Patient*, **54:** 358
Varkey, G. P. (ed.), *International Anesthesiology Clinics: Anesthetic Considerations in the Surgical Repair of Intracranial Aneurysms*, **58:** 398
Volpitto, P. P., and VanDam, L. D. (eds.), *The Genesis of Contemporary American Anesthesiology*, **59:** 370
Waldron, B. A., *Management of Epidural Analgesia in Childbirth*, **61:** 233
Wilkenson, P. L., Ham, J., and Miller, R. D. (eds.), *Clinical Anesthesia. Case Selections from the University of California, San Francisco*, **53:** 358
Wood, M., and Wood, A. J. J. (eds.), *Drugs and Anesthesia. Pharmacology for Anesthesiologists*, **58:** 597
Zauder, H. L., *Anesthesia for Orthopaedic Surgery*, **54:** 44w

Bowel, *See under* Colon
Brachial arteries, *See under* Arteries
Brachial plexus, *See under* Anatomy; Anesthetic techniques, regional
Brachial plexus block, *See under* Anesthetic techniques, regional
Brachial plexus damage, *See under* Position
Bradycardia, *See under* Complications; Heart, arrhythmia
Brain
acetylcholine, in nitrous oxide withdrawal syndrome (OA) [Rupreht, Dworacek, Ducardus, Schmitz & Dzoljic], **58:** 524
acute injury
acute tolerance to high-dose barbiturate treatment in patients with (CR) [Sawada, Sugimoto, Kobayashi, Ohashi, Yoshioka & Sugimoto], **56:** 53
-aminobutyric acid, release, inhibition of, from synaptosomes by local anesthetics (OA) [Ikeda, Dohi & Tsujimoti], **58:** 495
amygdala
activity of, and tetraphasic action of lidocaine on CNS electrical activity and behavior in cats (OA) [Seo, Oshima, Stevens & Mori], **57:** 451

anoxia
barbiturates in, question of (EV) [Michenfelder], **57:** 74
cerebral energy metabolite levels during, effect of high versus low arterial oxygen content on, with normothermia and hypothermia in rat (OA) [Keykhak, Hagerdal, Welsh, Barrer, Sisco & Harp], **52:** 492
pharmacokinetics of high-dose thiopental used in cerebral resuscitation in (CR) [Stanski, Mihm, Rosenthal & Kalman], **53:** 159
in thiopental therapy following experimental cardiac arrest in cats (OA) [Todd, Chadwick, Shapiro, Dunlop, Marshall & Dueck], **57:** 76
arteriovenous malformations
and hemodynamic consequences of high-dose methohexital anesthesia in humans (OA) [Todd, Drummond & Sang], **61:** 495
auditory evoked potentials
human, fentanyl anesthesia and (OA) [Samra, Lilly, Rush & Kirsh], **61:** 261
autoregulation
in brain surface protrusion during enflurane, halothane, and isoflurane anesthesia in cats (OA) [Drummond, Todd, Toutant & Shapiro], **59:** 288
and cerebrovascular response to hypotension in hypertensive rats (OA) [Hoffman, Miletich & Albrecht], **58:** 326
effects of halothane and isoflurane on, in cat, compared (OA) [Todd & Drummond], **60:** 276
basal ganglia, disorder of, anesthetic management in (CR) [Roy, McLain, Wise & Shaffner], **58:** 382
blood
effects of intravenous or subarachnoid morphine on, and antagonism with naloxone in dogs (OA) [Matsumiya & Dohi], **59:** 175
blood flow
adequacy of, bypass shunt to ensure, during carotid endarterectomy (OA) [Fan, Chen, Chien & Correll], **55:** 305
and blood volume, relationship between, during anesthesia with isoflurane or fentanyl in dogs (OA) [Artru], **60:** 575
blood-brain barrier, and intracellular pH differences with barbiturate and halothane anesthesia (OA) [Anderson, Michenfelder & Sundt], **52:** 201
in brain surface protrusion during enflurane, halothane, and isoflurane anesthesia in cats (OA) [Drummond, Todd, Toutant & Shapiro], **59:** 288
canine, during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Sharbrough & Milde], **55:** 110
canine, effects of hypercarbia on, with simultaneous direct and indirect measurement of blood flow (OA) [Artru & Michenfelder], **52:** 466
during carotid occlusion, failure of nasal plethysmography to estimate (OA) [Cucchiara & Messick], **55:** 585
and cerebrospinal fluid pressure during isoflurane administration in neurosurgical patients (OA) [Adams, Cucchiara, Gronert, Messick & Michenfelder], **54:** 97
and cerebrospinal fluid pressure, effect of positive end expiratory pressure ventilation (PEEP) on, in goats (OA) [Doblar, Santiago, Kahn & Edelman], **55:** 244
and CSF pressure during anesthesia with halothane or enflurane (OA) [Artru], **59:** 533
during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Steen & Milde], **59:** 18
distribution of, during hypotensive anesthesia in goat (OA) [Miletich, Gil, Albrecht & Zahed], **53:** 210
effects of halothane and isoflurane on, in cat, compared (OA) [Todd & Drummond], **60:** 276
effects of midazolam on, in humans (OA) [Forster, Juge & Morel], **56:** 453
effects of nalozone administered with anesthetic and subanesthetic concentrations of halothane on (OA) [Artru, Steen & Michenfelder], **52:** 217
effects of subarachnoid lidocaine and phenylephrine on, in dogs (OA) [Dohi, Matsumiya, Takeshita & Naito], **61:** 238
during enflurane anesthesia in humans (OA) [Sakabe, Maekawa, Fujii, Ishikawa, Tateishi & Takeshita], **59:** 532
fentanyl and, in dogs (OA) [McPherson & Traystman], **60:** 180
and glucose consumption in dog, inhibition of, by hypothermia, pentobarbital, and lidocaine (OA) [Astrup, Sorensen & Sorensen], **55:** 263
during halothane anesthesia in aged rat (OA) [Hoffman, Miletich, Albrecht, Seals & Jozefiak], **56:** 444
in hypercarbia—a controversy (EV) [Siesjo], **52:** 461
during hypotension in cats (OA) [Morris, Heuser, McDowall, Hashiba & Myers], **59:** 10
and ICP/CBF effects of volume loading during PEEP administration (CO) [Doblar], **57:** 63
and ICP/CBF effects of volume loading during PEEP administration (CO) [Drummond, Todd, Shapiro & Doblar], **57:** 62
isoflurane effects on, at and above concentrations that suppress cortical electrical activity (OA) [Newberg, Milde & Michenfelder], **59:** 23
in isoflurane-induced hypotension in dogs (OA) [Newberg, Milde & Michenfelder], **60:** 541
metabolic and protective effects of midazolam maleate and diazepam, compared (OA) [Nugent, Artru & Michenfelder], **56:** 172
and metabolic responses to intravenously administered lorazepam (OA) [Rockoff, Naughton, Shapiro, Ingvar, Ray, Gagnon & Marshall], **53:** 215
in neurosurgical patients, and isoflurane versus halothane (CO) [Azar & Thiagarajah], **61:** 786
in neurosurgical patients, and isoflurane versus halothane (CO) [Todd & Drummond], **61:** 787
nitrous oxide markedly increases, in goat (OA) [Pelligrino, Miletich, Hoffman & Albrecht], **60:** 405
normalization of, during prolonged halothane anesthesia (OA) [Albrecht, Miletich & Madala], **59:** 26
and oxygen consumption, effects of hemorrhagic and pharmacologic hypotension on (OA) [Grubb & Raichle], **56:** 3
oxygen metabolism, and electroencephalogram, effects of nitrous oxide on (OA) [Fitzpatrick & Gilboe], **57:** 480
during porcine malignant hyperthermia (OA) [Artru & Gronert], **53:** 121
and possible mechanisms of cerebrovascular dilation by anesthetics in rats (LR) [MacMurdo, Nemoto, Nikki & Frankenberry], **55:** 435
in prolonged hypothermia and rewarming (OA) [Steen, Milde & Michenfelder], **52:** 224
regional, during high-frequency positive-pressure ventilation (HFPPV) and intermittent positive-pressure ventilation (IPPV) [Bunegin, Smith, Sjostrand, Albin, Babinski, Heisel & Borg], **61:** 416
in response to high-dose fentanyl in rats (OA) [Carlsson, Smith, Keykhah, Englebach & Harp], **57:** 375
in SNP-induced hypotension in hypertensive rats (OA) [Hoffman, Albrecht, Miletich, Holland, Anderson & Seals], **56:** 427
and systemic hemodynamics and oxygen utilization in dog, effects of sodium nitroprusside on (OA) [Fan, Kim, Simchon, Chen, Schuessler & Chien], **53:** 113

blood volume
in brain surface protrusion during enflurane, halothane, and isoflurane anesthesia in cats (OA) [Drummond, Todd, Toutant & Shapiro], **59:** 288
and CSF pressure, relationship between, during anesthesia with isoflurane or fentanyl in dogs (OA) [Artru], **60:** 575
and CSF pressure during anesthesia with halothane or enflurane (OA) [Artru], **59:** 533
blood-brain barrier
and blood pH and brain uptake of ^{14}C-morphine (OA) [Schulman, Kaufman, Eisenstein & Rapoport], **61:** 540
effects of high-dose fentanyl on, in rats (OA) [Carlsson, Smith, Keykhah, Englebach & Harp], **57:** 375
fentanyl and (EV) [Stanski & Hug], **57:** 435
function following drug-induced hypotension in dog (OA) [Ishikawa, Funatsu, Okamoto, Takeshita & McDowall], **59:** 526
glycine and (CO) [Larson], **59:** 488
intracellular pH, and blood flow differences with barbiturate and halothane anesthesia (OA) [Anderson, Michenfelder & Sundt], **52:** 201
brain stem
accidental anesthesia of, following retrobulbar block (CO) [Chang, Gonzalez-Abola, Larson & Lobes], **61:** 789
carbon dioxide tension
and glycolytic metabolism during lidocaine infusion in rat (OA) [Maekawa, Oshibuchi, Takeshita & Imamura], **54:** 278
catecholamines
depletion, and effect of acute phencyclidine administration of cyclopropane requirement in rats (OA) [Raja, Moscicki, Woodside & DiFazio], **56:** 275
central nervous system
and structural specificity of barbiturates (MI) [Andrews & Mark], **57:** 314
cerebellar infarction
due to embolization during tumor resection (CO) [Lyden & Kinyon], **60:** 619
cerebellum
mouse, halothane effects on cGMP and control of motor activity in (OA) [rTrine, Vulliemoz, Verosky & Alpert], **54:** 193
consciousness
disturbances of, and hypocalcemia after neomycin irrigation, and reversal by calcium and physostigmine (CR) [Yao, Seidman & Artusio], **53:** 69
convulsions
in administration of convulsant drugs to mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, O'Connor, Deady & Eger], **56:** 25
are not found with lidocaine or pentylenetetrazol administration after enflurane anesthesia in cats (OA) [Heavner & Amory], **54:** 403
blood levels of bupivacaine resulting in (CO) [Fitzgibbons, Moore & Balfour], **55:** 476
bupivacaine: cardiotoxicity or anesthetic technique? (CO) [Conklin & Ziadlourad], **61:** 625
and changes in regional glucose utilization in rat brain, ketamine causing (OA) [Nelson, Howard, Cross & Samson], **52:** 330
and effects of sufentanil, in rats (OA) [Young, Smith, Greenberg, Reivich & Harp], **61:** 564
in epileptics, methohexital and (CO) [Allen & Male], **56:** 240
in epileptics, methohexital and (CO) [Rockoff & Goudsouzian], **56:** 241
following high-dose fentanyl in rats (OA) [Carlsson, Smith, Keykhah, Englebach & Harp], **57:** 375
in high-dose methohexital anesthesia in humans (OA) [Todd, Drummond & Sang], **61:** 495
hypoglycemia-induced, in an infant during anesthesia (CR) [Maze & Samuels], **52:** 77
induced by methohexital (CR) [Rockoff & Goudsouzian], **54:** 333
during lidocaine infusion in rat (OA) [Maekawa, Oshibuchi, Takeshita & Imamura], **54:** 278
in lidocaine toxicity, cerebral monoamines and, in rats (OA) [Niederlehner, DiFazio, Foster & Westfall], **56:** 184
lidocaine-induced, selective metabolic activation of hippocampus during (OA) [Ingvar & Shapiro], **54:** 33
local anesthetic-induced, and inhibition of -aminobutyric acid release from synaptosomes (OA) [Ikeda, Dohi & Tsujimoti], **59:** 495
local anesthetic-induced, protection from, by -aminobutyric acid (OA) [Ikeda, Dohi & Tsujimoto], **56:** 365
local anesthetic-induced, severe hypoxia and acidosis following (CR) [Moore, Crawford & Scurlock], **53:** 259
as manifestation of lidocaine toxicity in adult, newborn, and fetal sheep (OA) [Morishma, Pedersen, Finster, Sakuma, Bruce, Gtusche, Stark & Covino], **55:** 57
postoperative, following enflurane anesthesia (CR) [Kruczek, Albin, Wolf & Bertoni], **53:** 175
Cruetzfeld-Jacob disease
precautions in anesthetic management of patient with (OA) [MacMurdo, Jakymec & Bleyaert], **60:** 590
cyclic nucleotide
cGMP, halothane effect on, and control of motor activity in mouse cerebellum (OA) [Triner, Vulliemoz, Verosky & Alpert], **54:** 193
cyclic-AMP levels
and possible mechanisms of cerebrovascular dilation by anesthetics in rats (LR) [MacMurdo, Nemoto, Nikki & Frankenberry], **55:** 435
drug effects
of spinal opiates (CO) [Bahar, Orr & Dundee], **55:** 334
edema
as possible complication of cesarean section following ruptured cerebral aneurysm and neuroresuscitation (CR) [Kofke, Wuest & Ginnis], **60:** 242
as possible complication of combined cesarean section and clipping of intracerebral aneurysm (CR) [Lennon, Sundt & Gronert], **60:** 240
electrical stimulation transcutaneous
used during anesthesia (CO) [Nicosia & Lombard], **59:** 264
electroconvulsive therapy
associated with asystole, propranolol prior to (CO) [Wulfson, Sakanazi & Finck], **60:** 255
electroencephalogram
of cerebral cortical extracellular fluid H^+ and K^+ activities during hypotension in cats (OA) [Morris, Heuser, McDowall, Hashiba & Myers], **59:** 10
hypothermia and (CO) [Levy], **58:** 396
hypothermia and (CO) [Sharbrough, Quasha & Tinker], **58:** 396
interference with, by facial nerve stimulation (CO) [Artru, Chadwick, Colley & Momii], **59:** 605
intraoperative recording, new technique for applying scalp electrodes for (CO) [Bonneu, Head, Artru, Chadwick & Colley], **60:** 523
isoflurane effects on, at and above concentrations that suppress cortical electrical activity (OA) [Newberg, Milde & Michenfelder], **59:** 23
during profound arterial hypotension (OA) [Dong, Bledsoe, Eng, Heavner, Shaw, Hornbein & Anderson], **58:** 61
electroencephalography
in assessment of canine cerebral metabolic tolerance during 24

hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Sharbrough & Milde], **55:** 110
in assessment of inhibition of cerebral oxygen and glucose consumption in dog by hyperthermia, pentobarbital, and lidocaine (OA) [Astrup, Sorensen, Sorensen], **55:** 263
in assessment of metabolic, vascular and protective effects of midazolam maleate and diazepam, compared (OA) [Nugent, Artru & Michenfelder], **56:** 172
diagnostic activation of epileptogenic foci by enflurane during (CR) [Flemming, Fitzpatrick, Fariello, Duff, Hellman & Hoff], **52:** 431
effects of high-dose fentanyl anesthesia on (OA) [Sebel, Bovill, Wauquier & Rog], **55:** 203
as evidence of arousal in dogs from halothane after doxapram, physostigmine, or naloxone (OA) [Roy & Stulken], **55:** 392
of halothane anesthesia effects on human cortical visual evoked response (OA) [Uhl, Squires, Bruce & Starr], **53:** 273
and hemiparesis following carotid endarterectomy (CR) [Grundy, Sanderson, Webster, Richey, Procipio & Karanjia], **55:** 462
and hemodynamic consequences of high-dose methohexital anesthesia in humans (OA) [Todd, Drummond & Sang], **61:** 495
intraoperative patterns of, implications for EEG monitoring (OA) [Levy], **60:** 430
in lidocaine infusion in cats (OA) [Seo, Oshima, Stevens & Mori], **57:** 451
in measurement of brain intracellular pH, blood-brain barrier, and blood flow differences with barbiturate and halothane anesthesia (OA) [Anderson, Michenfelder & Sundt], **52:** 201
in naloxone administration with anesthetic and subanesthetic concentrations of halothane (OA) [Artru, Steen & Michenfelder], **52:** 217
oxygen metabolism, and cerebrovascular tone effects of nitrous oxide on (OA) [Fitzpatrick & Gilboe], **57:** 480
patterns, in studies of cerebral energy state and glycolytic metabolism during lidocaine infusion in rat (OA) [Maekawa, Oshibuchi, Takeshita & Imamura], **54:** 278
during porcine malignant hyperthermia (OA) [Artru & Gronert], **53:** 121
processing, automated, for intraoperative monitoring (CO) [Klein & Davis], **54:** 433
processing, automated, for intraoperative monitoring (MI) [Levy, Shapiro, Maruchak & Meathe], **53:** 223
prolonged suppression with, in hypothermia plus thiopental (OA) [Quasha, Tinker & Sharbrough], **55:** 636
in studies of lidocaine and pentylenetetrazol seizure thresholds in cats, after enflurane anesthesia (OA) [Heavner & Amory], **54:** 403
in studies of methohexital in epileptics (CO) [Allen & Male], **56:** 240
in studies of methohexital in epileptics (CO) [Rockoff & Goudsouzian], **56:** 241
in study of effects of high-dose fentanyl on cerebral circulation and metabolism in rats (OA) [Carlsson, Smith, Keykhah, Englebach & Harp], **57:** 375
in study of effects of thiopental therapy following cardiac arrest (OA) [Todd, Chadwick, Shapiro, Dunlop, Marshall & Dueck], **57:** 76

encephalogram
quantitative analysis of changes on, during hypothermia (OA) [Levy], **60:** 291

encephalography
in barbiturates for brain resuscitation (EV) [Michenfelder], **57:** 74

endorphins
anesthesia does not increase, in cerebrospinal fluid of humans (OA) [Way, Hosobuchi, Johnson, Eger & Bloom], **60:** 43
and mechanisms of pain inhibition intrinsic to central nervous system (EV) [Liebeskind], **54:** 445
in nitrous oxide withdrawal syndrome (OA) [Rupreht, Dworacek, Ducardus, Schmitz & Dzoljic], **58:** 524

epilepsy, facial pain in, induced by music (CO) [Yanagida], **58:** 388

evoked potentials
elicited by painful stimulation, effects of nitrous oxide and transcutaneous electrical stimulation on (OA) [Chapman, Schimek, Gehrig, Gerlach & Colpitts], **58:** 250
event-related, effects of nitrous oxide concentration on, during painful tooth stimulation (OA) [Beneditti, Chapman, Colpitts & Chen], **56:** 360
during profound arterial hypotension (OA) [Dong, Bledsoe, Eng, Heavner, Shaw, Hornbein & Anderson], **58:** 61
sensory, intraoperative monitoring of (MI) [Grundy], **58:** 72
visual (VEP), in humans, effect of hypothermia on (CR) [Russ, Kling, Loesevitz & Hempelmann], **61:** 207

evoked response
visual, effect of halothane anesthesia on (OA) [Uhl, Squires, Bruce & Starr], **53:** 273

function
neonatal neurologic and adaptive capacity score (NACS) and (CO) [Amiel-Tison, Barrier, Shnider, Levinson, Hughes & Stefani], **56:** 492

gamma-aminobutyric acid
and current theories about mechanisms of benzodiazepines and neuroleptic drugs (MI) [Richter], **54:** 66
inhibition of metabolism of, in rat brain slices by halothane (OA) [Cheng & Brunner], **55:** 26
inhibition of metabolism of, in rat brain synaptosomes by midazolam (R0-21-3981) [Cheng & Brunner], **55:** 41
protection from local anesthetic-induced convulsions by (OA) [Ikeda, Dohi & Tsujimoto], **56:** 365
synaptosomal disposal of, effects of anesthetic agents on (OA) [Cheng & Brunner], **55:** 34

glucose utilization
local changes in, during ketamine anesthesia (OA) [Crosby, Crane & Sokoloff], **56:** 437
with pentobarbital or nitrous oxide (OA) [Crosby, Crane, Jehle & Sokoloff], **58:** 38
regional, and ketamine-induced behavior in rat, influence of droperidol, diazepam, and physostigmine on (OA) [Oguchi, Arakawa, Nelson & Samson], **57:** 353
regional, ketamine-induced changes in, in rat (OA) [Nelson, Howard, Cross & Samson], **52:** 330
regional potential pitfalls in measuring (CO) [Crosby & Sokoloff], **58:** 291
regional potential pitfalls in measuring (CO) [Hawkjins, Hass & Ransohoff], **58:** 290
in, and in spinal cord, comparison of local rates of, in conscious and nitrous oxide- or pentobarbital-treated rats (OA) [Crosby, Crane & Sokoloff], **61:** 434

hematoma
following post-lumbar puncture headache (CR) [Mantia], **55:** 680

hemorrhage
as possible complication of cesarean section following ruptured cerebral aneurysm and neuroresuscitation (CR) [Kofke, Wuest & Ginnis], **60:** 242
as possible complication of combined cesarean section and clipping of intracerebral aneurysm (CR) [Lennon, Sundt & Gronert], **60:** 240
following post-lumbar puncture headache (CR) [Mantia], **55:** 680

high pressures
in administration of convulsant drugs to mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, O'Connor, Deady &, Eger], **56:** 25
hippocampus
action of lidocaine on, in cats (OA) [Seo, Oshima, Stevens & Mori], **57:** 451
selective metabolic activation of, during lidocaine-induced preseizure activity (OA) [Ingvar & Shapiro], **54:** 33
hypotension
-induced anesthesia, in goat, intracerebral blood flow distribution during (OA) [Miletich, Gil, Albrecht & Zahed], **53:** 210
hypoxia
barbiturate protection from, mechanisms of (EV) [Steen & Michenfelder], **53:** 183
and lipid peroxidation in, *in vitro,* inhibitory effects of different barbiturates on (OA) [Smith, Rehncrona & Siesjo], **53:** 186
infarction
and hemiparesis following carotid endarterectomy: comparison of monitoring methods (CR) [Grundy, Sanderson, Webster, Richey, Procopio & Karanjia], **55:** 462
intracranial
and cerebral blood flow, effect of positive end-expiratory pressure ventilation (PEEP) on, in goats (OA) [Doblar, Santiago, Kahn & Edelman], **55:** 244
effects of laryngotracheal lidocaine administration on (CR) [Hamill, Bedford, Weaver & Colohan], **55:** 578
reduction of, influence of anesthetic technique on nitroprusside requirements in (CO) [Berry], **53:** 264
reduction of, influence of anesthetic technique on nitroprusside requirements in (CO) [Marsh], **53:** 265
intracranial lesions
response of patients with, to muscle relaxants (RA) [Azar], **61:** 173
intracranial pressure
and blood volume, relationship between, during anesthesia with isoflurane or fentanyl in dogs (OA) [Artru], **60:** 575
in cats, effects of high-frequency positive-pressure ventilation on (OA) [Todd, Toutant & Shapiro], **54:** 496
and cerebral blood volume with halothane or enflurane (OA) [Artru], **58:** 533
following cross-clamping of thoracic aorta (CR) [Hantler & Knight], **56:** 146
and CSF production in dog, following enflurane anesthesia (OA) [Artru, Nugent & Michenfelder], **57:** 255
and effects of enflurane and isoflurane on resistance to reabsorption of cerebrospinal fluid in dogs (OA) [Artru], **61:** 529
effects of halothane and isoflurane on, in cat, compared (OA) [Todd & Drummond], **60:** 276
during endotracheal suctioning, randomized study of drugs presenting increases (CR) [White, Schlobohm, Pitts & Lindauer], **57:** 242
and ICP/CBF effects of volume loading during PEEP administration (CO) [Doblar], **57:** 63
and ICP/CBF effects of volume loading during PEEP administration (CO) [Drummond, Todd & Shapiro], **57:** 62
increase in during suctioning-stimulation vs. rise in Pa_{CO_2} (CR) [Fisher, Frewen & Swedlow], **57:** 416
and intermittent drainage of ventricular CSF (CO) [Drummond], **60:** 609
IV *vs.* LTA lidocaine and (CO) [Hamill, Bedford, Weaver & Colohan], **56:** 415
IV *vs.* LTA lidocaine and (CO) [White], **56:** 414
following midazolam or thiopental in humans with brain tumors (CR) [Giffin, Cottrell, Shwiry, Hartung, Epstein & Lim], **60:** 491
monitoring of, in prevention of tension pneumocephalus (CO) [Toung, Donham & Campbell], **57:** 65
in neurosurgical patients, and isoflurane versus halothane (CO) [Azar & Thiagarajah], **61:** 786
in neurosurgical patients, and isoflurane versus halothane (CO) [Todd & Drummond], **61:** 787
perioperative diuresis and (CO) [Barshaw, Smith, Bloom, Mitchell & Young], **61:** 107
and rate of CSF production in dog, isoflurane does not increase (OA) [Artru], **60:** 193
regional, during high-frequency positive-pressure ventilation (HFPPV) and intermittent positive-pressure ventilation (IPPV) [Bunegin, Sjostrand, Albin, Babinski, Heisel & Borg], **61:** 416
in tension pneumocephalus, cardiac arrest associated with (CR) [Thiagarajah, Frost, Singh & Shulman], **56:** 73
ischemia
barbiturate protection from, mechanisms of (EV) [Steen & Michenfelder], **53:** 183
barbiturates in, question of (EV) [Michenfelder], **57:** 74
global, in pigtailed monkeys, thiopental treatment after (OA) [Gisvold, Safar, Hendrickx, Rao, Moossy & Alexander], **60:** 88
increase in extracellular potassium during effects of hypothermia, lidocaine, and thiopental (OA) [Astrup, Skovsted, Gjerris & Sorensen], **55:** 256
and lipid peroxidation in, *in vitro,* inhibitory effects of different barbiturates on (OA) [Smith, Rehncrona & Siesjo], **53:** 186
the chicken should come before the egg (EV) [Shapiro], **60:** 85
in thiopental therapy following experimental cardiac arrest in cats (OA) [Todd, Chadwick, Shapiro, Dunlop, Marshall & Dueck], **57:** 76
lactate
effects of high versus low arterial oxygen content on, during hypoxia with normothermia and hypothermia in rat (OA) [Kekhak, Hagerdal, Welsh, Barrer, Sisco & Harp], **52:** 492
limbic system
fentanyl and (OA) [Tommasino, Maekawa & Shapiro], **60:** 283
limbic system activation
and effects of sufentanil, in rats (OA) [Young, Smith, Greenberg, Reivich & Harp], **61:** 564
lipids
synapses, selective breeding alters murine resistance of nitrous oxide without alteration in composition of (OA) [Koblin, Dong, Deady & Eger], **52:** 401
measurement
direct, dynamic responses of liquid-filled catheter systems for (LR) [Shinozaki, Deane & Mazuzan], **53:** 498
metabolism
canine, during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Sharborugh & Milde], **55:** 110
canine, effects of hypercarbia on, with simultaneous direct and indirect measurement of blood flow (OA) [Artru & Michenfelder], **52:** 466
and cerebral protective effect of low-grade hypothermia (EV) [Cohen], **55:** 492
and cerebral protective effect of low-grade hypothermia (OA) [Berntman, Welsh & Harp], **55:** 495
and circulatory responses, to intravenously administered lorazepam (OA) [Rockoff, Naughton, Shapiro, Ingvar, Ray, Gagnon & Marshall], **53:** 215
during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Steen & Milde], **58:** 18

differences with barbiturate and halothane anesthesia (OA) [Anderson, Michenfelder & Sundt], **52:** 201
effects of halothane and isoflurane on, in cat, compared (OA) [Todd & Drummond], **60:** 276
effects of hypothermia and barbiturates on (OA) [Steen, Newberg, Milde & Michenfelder], **58:** 527
effects of intravenous or subarachnoid morphine on, and antagonism with naloxone in dogs (OA) [Matsumiya & Dohi], **59:** 175
effects of isoflurane on, during hypoxemia or ischemia (OA) [Newberg & Michenfelder], **59:** 29
effects of naloxone administration with anesthetic and subanesthetic concentrations of halothane on (OA) [Artru, Steen & Michenfelder], **52:** 217
effects of prolonged hypothermia and rewarming on (OA) [Steen, Milde & Michenfelder], **52:** 224
and energy state, during lidocaine infusion in rat (OA) [Maekawa, Oshibuchi, Takeshita & Inamura], **54:** 278
fentanyl and (OA) [Tommasino, Maekawa & Shapiro], **60:** 283
fentanyl in, in dogs (OA) [McPherson & Traystman], **60:** 180

glucose
consumption in dog, inhibition of, by hypothermia, pentobarbital, and lidocaine (OA) [Astrup, Sorensen & Sorensen], **55:** 263
during althesin anesthesia (OA) [Davis, Hawkins, Mans, Hibbard & Biebuyck], **61:** 362
and effects of sufentanil, in rats (OA) [Young, Smith, Greenberg, Reivich & Harp], **61:** 564
ketamine-induced changes in, in rat (OA) [Nelson, Howard, Cross & Samson], **52:** 330
isoflurane effects on, at and above concentrations that suppress cortical electrical activity (OA) [Newberg, Milde & Michenfelder], **59:** 23
in isoflurane-induced hypotension in dogs (OA) [Newberg, Milde & Michenfelder], **60:** 541
and measuring regional cerebral glucose utilization (CO) [Crosby & Sokoloff], **58:** 291
and measuring regional cerebral glucose utilization (CO) [Hawkins, Hass & Ransohoff], **58:** 290
in neurosurgical patients, and isoflurane versus halothane (CO) [Azar & Thiagarajah], **61:** 786
in neurosurgical patients, and isoflurane versus halothane (CO) [Todd & Drummond], **61:** 787
nitrous oxide markedly increases, in goat (OA) [Pelligrino, Miletich, Hoffman & Albrecht], **60:** 405
normalization of, during prolonged halothane anesthesia (OA) [Albrecht, Miletich & Madala], **58:** 26
during porcine malignant hyperthermia (OA) [Artru & Gronert], **53:** 121
rate of, in hypercarbia—a controversy (EV) [Siesjo], **52:** 461
in rats, effect of diazepam on, and its interaction with nitrous oxide (OA) [Carlsson & Chapman], **54:** 488

regional
local changes in, during ketamine anesthesia (OA) [Crosby, Crane & Sokoloff], **56:** 437
with pentobarbital or nitrous oxide (OA) [Crosby, Crane, Jehle & Sokoloff], **58:** 38
in response to high-dose fentanyl in rats (OA) [Carlsson, Smith, Keykhah, Englebach & Harp], **57:** 375
responses of, to high versus low arterial oxygen content during hypoxia with normothermia and hypothermia in rat (OA) [Kekhak, Hagerdal, Welsh, Barrer, Sisco & Harp], **52:** 492
selective, during lidocaine-induced pre-seizure activity (OA) [Ingvar & Shapiro], **54:** 33
in SNP-induced hypotension in hypertensive rats [Hoffman, Albrecht, Miletich, Holland, Anderson & Seals], **56:** 427
in, and in spinal cord, comparison of local rates of, in conscious and nitrous oxide- or pentobarbital-treated rats (OA) [Crosby, Crane & Sokoloff], **61:** 434
vascular and protective effects of midazolam maleate and diazepam, compared (OA) [Nugent, Artru & Michenfelder], **56:** 172

methionine
synthetase activity of, inactivation of, by nitrous oxide in mice (OA) [Koblin, Watson, Deady, Stokstad & Eger], **54:** 318

midbrain reticular formation
anesthetics and excitatory/inhibitory responses of (OA) [Shimoji, Fujioka, Fukazawa, Hashiba & Maruyama], **61:** 151

monitoring
cerebrovascular tone, and electroencephalogram, effects of nitrous oxide on (OA) [Fitzpatrick & Gilboe], **57:** 480

monoamines
and lidocaine toxicity in rats (OA) [Niederlehner, DiFazio, Foster & Westfall], **56:** 184
moyamoya disease, and anesthesia (CO) [Sumikawa & Nagai], **58:** 204

neurobehavior
neonatal, duration of effect of maternally administered meperidine on (CR) [Hodgkinson & Husain], **56:** 51

neurotransmitters
catecholamines, accumulation of, by synaptic vesicles, and anesthetics acting by collapsing ΔpH gradients (OA) [Bangham & Mason], **53:** 135
and current theories about mechanisms of benzodiazepines and neuroleptic drugs (MI) [Richter], **54:** 66
inhibition of, in rat brain slices by halothane (OA) [Cheng & Brunner], **55:** 26
and membrane receptor function in anesthesia (MI) [Maze], **55:** 160

oxygen consumption
and blood flow, effects of hemorrhagic and pharmacologic hypotension on (OA) [Grubb & Raichle], **56:** 3
canine, 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Sharbrough & Milde], **55:** 110
canine, effects of hypercarbia on, with simultaneous direct and nondirect measurement of blood flow (OA) [Artru & Michenfelder], **52:** 466
during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Steen & Milde], **58:** 18
effects of hypothermia and barbiturates on (OA) [Steen, Newberg, Milde & Michenfelder], **58:** 527
effects of naloxone administration with anesthetic and subanesthetic concentrations of halothane on (OA) [Artru, Steen & Michenfelder], **52:** 217
during enflurane anesthesia in humans (OA) [Sakabe, Maekawa, Fujii, Ishikawa, Tateishi & Takeshita], **59:** 532
and glucose consumption in dog, inhibition of, by hypothermia, pentobarbital, and lidocaine (OA) [Astrup, Sorensen & Sorensen], **55:** 263
in hypercarbia—a controversy (EV) [Siesjo], **52:** 461
isoflurane effects on, at and above concentrations that suppress cortical electrical activity (OA) [Newberg, Milde & Michenfelder], **59:** 23
and metabolic and vascular effects of midazolam maleate and diazepam, compared (OA) [Nugent, Artru & Michenfelder], **56:** 172

oxygenation
during carotid occlusion, failure of nasal plethysmography to estimate (CR) [Cucchiara & Messick], **55:** 585

during circulatory arrest, increase in extracellular potassium in, effects of hypothermia, lidocaine, and thiopental (OA) [Astrup, Skovsted, Gjerris & Sorensen], **55:** 256
in high versus low arterial oxygen content during hypoxia with normothermia and hypothermia in rat (OA) [Kekhak, Hagerdal, Welsh, Barrer, Sisco & Harp], **52:** 492
during lidocaine infusion in rat (OA) [Maekawa, Oshibuchi, Takeshita & Inamura], **54:** 278
pentobarbital therapy
infusions in, compatibility and stability of (CO) [Walker & Iazzetta], **55:** 487
peripheral
vascular resistance, and oxygen utilization in dog, effects of sodium nitroprusside on (OA) [Fan, Kim, Simchon, Chen, Schuessler & Chien], **53:** 113
***p*H**
during hypotension in cats (OA) [Morris, Heuser, McDowall, Hashiba & Myers], **59:** 10
pneumocephalus, after translabrynthine acoustic neuroma excision and nitrous oxide anesthesia (CR) [Miller & Furman], **58:** 281
protection
barbiturate, mechanisms of (EV) [Steen & Michenfelder], **53:** 183
barbiturates in, question of (EV) [Michenfelder], **57:** 74
during circulatory arrest, effects of hypothermia, lidocaine, and thiopental on (OA) [Astrup, Skovsted, Gjerris & Sorensen], **55:** 256
in hypothermia plus thiopental (OA) [Quasha, Tinker & Sharbrough], **55:** 636
hypothermic, during cerebral hypoxia in rat, effect of high versus low arterial oxygen content on (OA) [Kekhak, Hagerdal, Welsh, Barrer, Sisco & Harp], **52:** 492
during inhibition of cerebral oxygen and glucose consumption in dog by hypothermia, pentobarbital, and lidocaine (OA) [Astrup, Sorensen & Sorensen], **55:** 263
by isoflurane during hypoxemia or ischemia (OA) [Newberg & Michenfelder], **59:** 29
and lipid peroxidation in, *in vitro*, inhibitory effects of different barbiturates on (OA) [Smith, Rehncrona & Siesjo], **53:** 186
by low-grade hypothermia (EV) [Cohen], **55:** 492
by low-grade hypothermia (OA) [Berntman, Welsh & Harp], **55:** 495
study of, in thiopental therapy following experimental cardiac arrest in cats (OA) [Todd, Chadwick, Shapiro, Dunlop, Marshall & Dueck], **57:** 76
respiratory center
in surgical procedures involving the posterior fossa, cardiorespiratory and cranial-nerve sequelae in (CR) [Artru, Cucchiara & Messick], **52:** 82
resuscitation
the chicken should come before the egg (EV) [Shapiro], **60:** 85
thiopental treatment after, in pigtailed monkeys (OA) [Gisvold, Safar, Hendrickx, Rao, Moossy & Alexander], **60:** 88
reticular multi-unit activity
in lidocaine infusion in cats (OA) [Seo, Oshima, Stevens & Mori], **57:** 451
seizure threshold
in alterations in cerebral monoamines and lidocaine toxicity in rats (OA) [Niederlehner, DiFazio, Foster & Westfall], **56:** 184
during lidocaine infusion in rat (OA) [Maekawa, Oshibuchi, Takeshita & Inamura], **54:** 278
lidocaine or pentylenetetrazol, in cats, after enflurane anesthesia (OA) [Heavner & Amory], **54:** 403
observation of, diagnostic activation of epileptogenic foci by enflurane for (CR) [Flemming, Fitzpatrick, Fariello, Duff, Hellman & Hoff], **52:** 431
seizures
doses of bupivacaine and lidocaine, influence of serum potassium on (OA) [Avery, Redon, Schaenzer & Rusy], **61:** 134
fentanyl and (OA) [Tommasino, Maekawa & Shapiro], **60:** 283
grand mal, after fentanyl administration (CO) [Hoien], **60:** 387
in lidocaine infusion in cats (OA) [Seo, Oshima, Stevens & Mori], **57:** 451
the chicken should come before the egg (EV) [Shapiro], **60:** 85
thiopental treatment after, in pigtailed monkeys (OA) [Gisvold, Safar, Hendrickx, Rao, Moossy & Alexander], **60:** 88
somatosensory-evoked potentials, intraoperative loss of (CO) [Raudzens], **58:** 593
stimulation, with pentobarbital or nitrous oxide (OA) [Crosby, Crane, Jehle & Sokoloff], **58:** 38
subdural space, air flow into, and pneumocephalus, during neuroma excision and nitrous oxide anesthesia (CR) [Miller & Furman], **58:** 281
surface movement
in cats, effects of high-frequency positive-pressure ventilation on (OA) [Todd, Steven, Toutant & Shapiro], **54:** 496
synapses
GABA accumulation in, and inhibition of metabolism of, in rat brain slices by halothane (OA) [Cheng & Brunner], **55:** 26
GABA disposal in, effects of anesthetic agents on (OA) [Cheng & Brunner], **55:** 34
quantitation of, and determination of anesthetic requirements, in quaking mouse (OA) [Koblin], **54:** 17
in rat, inhibition of GABA metabolism in, by midazolam (R0-21-3981) [Cheng & Brunner], **55:** 41
synaptic vesicles
and anesthetics acting by collapsing pH gradients (OA) [Bangham & Mason], **53:** 135
synaptosomes, inhibition of -aminobutyric acid release from, by local anesthetics (OA) [Ikeda, Dohi & Tsujimoti], **58:** 495
tension pneumocephalus
(CO) [Marshall], **58:** 301
intraoperative, nitrous oxide and (CO) [Frost], **58:** 197
prevention of, after craniotomy, nitrous oxide and (CO) [Friedman], **58:** 196
prevention of (CO) [Toung, Donham & Campbell], **57:** 65
trauma
cerebral resuscitation in, pharmacokinetics of high-dose thiopental used in (CR) [Stanski, Mihm, Rosenthal & Kalman], **53:** 169
Brain stem, *See under* Brain
Brainstem auditory evoked potential, *See under* Monitoring
Breathing pattern, *See under* Ventilation
Bretylium, *See under* Heart, arrhythmias; Sympathetic nervous system, sympatholytic agents
Bromide, *See under* Ions; Structure, molecular
Bronchiolitis, *See under* Infection(s)
Bronchoconstriction, *See under* Airway; Complications; Lung(s)
Broncho-cranial stimulation, *See under* Complications
Bronchodilation, *See under* Lung(s)
Bronchofiberscopy, *See under* Anesthetic techniques, bronchoscopy
Bronchopleural fistula, *See under* Lung(s)
Bronchoscope, *See under* Equipment, airway
Bronchoscopy, *See under* Anesthetic techniques; Surgery
Bronchospasm, *See under* Complications; Lung(s)
Bronchus, *See under* Lung(s)
Bullae, *See under* Complications
Buphrenorphine, *See under* Analgesics, narcotic
Bupivacaine, *See under* Anesthetics, local
Burns, *See under* Complications; Electrical systems

Butorphanol, *See under* Analgesics, narcotic; Anesthetics, intravenous
Butyrophenones, *See under* Hypnotics
BW 33A, *See under* Neuromuscular relaxants, atracurium
BW A444U, *See under* Neuromuscular relaxants
BWA444U, *See under* Neuromuscular relaxants
Bypass grafting, coronary artery, *See under* Surgery
Bypass valve, *See under* Equipment

C

Calcitonin, *See under* Hormones
Calcium, *See under* Antagonists, neuromuscular relaxants; Ions
Calcium channel blockers, *See under* Ions; Sympathetic nervous system
Calcium chloride, *See under* Pharmacology
Calcium entry blockers, *See under* Heart; Ions; Pharmacology
Cancer
anesthesia for isolated hyperthermic limb perfusion in (CR) [Cruchley, Kaplan, Waller & Young], **57:** 228
in chromosomal modifications, and low-level binding of halothane metabolites to rat liver histones *in vivo* (OA) [Edmunds, Trudell & Cohen], **54:** 298
chronic pain, epidural narcotic infusion reservoir in: implantation technique and efficacy (CR) [Coombs, Saunders, Gaylor & Pageau], **56:** 469
following enflurane exposure, carcinogen bioassay of, in mice (OA) [Baden, Egbert & Mazze], **56:** 9
isolated limb perfusion
hyperthermic, anesthesia for (CR) [Cruchley, Kaplan, Waller & Young], **57:** 228
Kaposi's sarcoma, acquired immunodeficiency syndrome (AIDS) and blood products and (EV) [Miller & Bove], **58:** 493
Cannulas, *See under* Equipment
Cannulation, *See under* Anatomy, specific vessels; Arteries; Monitoring; Veins
Capillaries, *See under* Microcirculation
Capsaicin, *See under* Pharmacology
Captopril, *See under* Pharmacology; Polypeptides
Carbamycholine, *See under* Parasympathetic nervous system
Carbohydrate, *See under* Metabolism
Carbon dioxide
absorption
in CO_2 absorber malassembly (CO) [Luich], **59:** 608
and costs of delivery of anesthetic gases in closed-circle anesthesia system, re-examined (CO) [Spain], **55:** 707
and costs of delivery of anesthetic gases in closed-circle anesthesia system, re-examined (CO) [Virtue & Aldrete], **55:** 707
due to unusual failure of anesthetic equipment (CR) [Detmer, Chandra & Cohen], **52:** 278
unusual case of, during general anesthesia (CR) [Klein & Lilburn], **53:** 248
following venous injection, nitrous oxide in intensification of pulmonary arterial pressure response to, in dog (OA) [Steffey, Johnson & Eger], **52:** 52
and Bain circuit (CO) [Dean & Keenan], **58:** 393
blood levels
in carbon dioxide embolism during laparoscopy (CR) [Yacoub, Cardona, Coveler & Dodson], **57:** 533
elimination
during nutrition for patient with respiratory failure (OA) [Askanazi, Nordenstrom, Rosenbaum, Elwyn, Hyman, Carpentier & Kinney], **54:** 373
embolus
during laparoscopy (CR) [Yacoub, Cardona, Coveler & Dodson], **57:** 533
hypercapnia
in carbon dioxide embolism during laparoscopy (CR) [Yacoub, Cardona, Coveler & Dodson], **57:** 533
halothane effects on carotid body chemoreceptors to (EV) [Knill & Gelb], **57:** 151
hypercarbia
canine cerebral metabolism and blood flow response to, with simultaneous direct and indirect measurement of blood flow (OA) [Artru & Michenfelder], **52:** 466
in carbon dioxide embolism during laparoscopy (CR) [Yacoub, Cardona, Coveler & Dodson], **57:** 533
cerebral metabolic rate in—a controversy (EV) [Siesjo], **52:** 461
and changes in Pa_{CO_2} and Pa_{O_2} in cat, modification of laryngospasm in response to (OA) [Nishino, Yonezawa & Honda], **55:** 286
effects of, on sulfobromophthalein disposition in rats (OA) [Hurwitz & Fischer], **60:** 537
environment, and *milieu interieur* (CO) [Smith], **61:** 628
unusual case of, during general anesthesia (CR) [Klein & Lilburn], **53:** 248
hypocarbia
and changes in Pa_{CO_2} and Pa_{O_2} in cat, modification of laryngospasm in response to (OA) [Nishino, Yonezawa & Honda], **55:** 286
insufflation
for arthroscopy, airway emergency in patient during (CO) [Shupak, Shuster & Funch], **60:** 171
measurement
during cardiopulmonary bypass (CO) [Jaffe & Barnhart], **56:** 485
Einstein detector for (CO) [Berman, Furgiuele & Marx], **60:** 614
expiratory, potential value of, in patients considered to be susceptible to malignant hyperthermia (CO) [Triner & Sherman], **55:** 482
possible source of error in (CO) [Fletcher, Nordstrom, Werner & Jonson], **59:** 77
and respiratory quotient, intraoperative fluid management influences (OA) [Hagerdal, Caldwell & Gross], **59:** 48
in respiratory gas, early detection of endotracheal tube accidents by (CR) [Murray & Modell], **59:** 344
in systemic method for validation of gas exchange measurements (LR) [Damask, Weissman, Askanazi, Hyman, Rosenbaum & Kinney], **57:** 213
and temperature correction of arterial blood-gas values (CO) [Sivarajan], **56:** 329
in temperature correction of arterial blood-gas parameters, methodology compared (MI) [Andritsch, Muravchick & Gold], **55:** 311
to verify intratracheal placement of breathing tube (CO) [Bashein & Cheney], **61:** 782
production
measurement of, possible source of error in (CO) [Fletcher, Nordstrom, Werner & Jonson], **59:** 77
during nutrition for patient with respiratory failure (OA) [Askanazi, Nordenstrom, Rosenbaum, Elwyn, Hyman, Carpentier & Kinney], **54:** 373
and respiratory quotient, intraoperative fluid management influences (OA) [Hagerdal, Caldwell & Gross], **59:** 48
in systematic method for validation of gas exchange measurements (LR) [Damask, Weissman, Askanazi, Hyman, Rosenbaum & Kinney], **57:** 213
and ventilatory requirements of critically ill neonates (OA) [Epstein & Hyman], **53:** 379
rebreathing
and Bain circuit (CO) [Humphrey], **60:** 80
and Bain circuit (CO) [Jones], **60:** 81
and Bain circuit (CO) [Nott & Norman], **58:** 392
environment, and *milieu interieur* (CO) [Smith], **61:** 628

ventilatory response after thiopental and midazolam (OA) [Gross, Zebrowski, Carel, Gardner & Smith], **58:** 540

steady state

in study of effectiveness of physostigmine as antagonist of respiratory depression and psychomotor effects caused by morphone or diazepam (OA) [Bourke, Rosenberg & Allen], **61:** 523

tension

pH, and definition of values of, at any body temperature (EV) [Williams & Marshall], **56:** 1

end tidal

in respiratory gas, early detection of endotracheal tube accidents by (CR) [Murray & Modell], **59:** 344

ventilatory control

measurement of, for respiratory depression following administration of midazolam and diazepam (OA) [Forster, Gardaz, Suter & Gemperle], **53:** 494

ventilatory response

and analgesic effects of dezocine in humans (OA) [Gal & DiFazio], **61:** 716

in assessment of effects of droperidol on respiratory drive in humans (OA) [Prokocimer, Delavault, Ray, Lefevre, Mazze & Desmonts], **59:** 113

effect of epidural morphine following epidural local anesthesia on (OA) [Doblar, Muldoon, Albrecht, Baskoff & Watson], **55:** 423

effects of physostigmine as antagonist of respiratory depression and psychomotor effects caused by morphone or diazepam (OA) [Bourke, Rosenberg & Allen], **61:** 523

effects of physostigmine on (OA) [Spaulding, Choi, Gross, Apfelbaum & Broderson], **61:** 551

to nalbuphine, and to morphine, compared (OA) [Gal, DiFazio & Moscicki], **57:** 367

time course of, after intravenous diazepam (OA) [Gross, Smith & Smith], **57:** 18

Carbon dioxide, *See also* under Acid-base equilibrium

hypercapnia

fentanyl and, in dogs (OA) [McPherson & Traystman], **60:** 180

Carbon dioxide laser, *See under* Equipment

Carbon dioxide output, *See under* Ventilation

Carbon dioxide production, *See under* Measurement techniques; Metabolism

Carbon dioxide response, *See under* Ventilation

Carbon dioxide tension, *See also under* Ventilation

brain, and glycolytic metabolism during lidocaine infusion in rat (OA) [Maekawa, Oshibuchi, Takeshita & Imamura], **54:** 278

Carbon monoxide, *See under* Gases, nonanesthetic

Carbon tetrachloride, *See under* Toxicity

Carcinogenicity, *See under* Toxicity

Cardiac anesthesia, *See under* Anesthesia

Cardiac arrest, *See under* Complications, arrest; Heart, cardiac massage

Cardiac calcium control, *See under* Ions; Muscle

Cardiac conduction, *See under* Heart

Cardiac herniation, *See under* Complications

Cardiac output, *See under* Heart; Measurement techniques

Cardiac output detectors, *See under* Equipment

Cardiac protection, *See under* Heart

Cardiac shunt, *See under* Heart

Cardiac surgery, *See under* Surgery

Cardiac toxicity, *See under* Toxicity

Cardiac valvular disease, *See under* Heart; Complications

Cardiokymogram, *See under* Measurement techniques

Cardiokymography, *See under* Monitoring

Cardiomyopathy, hypertrophic obstructive, *See under* Heart

Cardioplegia, *See under* Surgery, cardiac

Cardiopulmonary bypass, *See under* Heart; Surgery

Cardiopulmonary resuscitation, *See under* Heart

Cardiotoxicity, *See under* Heart

Cardiovascular anesthesia, *See under* Anesthesia

Cardiovascular reflexes, *See under* Heart

Cardiovascular surgery, *See under* Surgery

Cardiovascular toxicity, *See under* Toxicity

Cardioversion, *See under* Anesthesia; Heart

Carfentanil, *See under* Analgesics; Anesthesia, intravenous

Carotid artery, *See under* Arteries; Brain, blood flow; Surgery, carotid endarterectomy

Carotid blood flow monitoring, *See under* Monitoring

Carotid body, *See under* Receptors, chemoreceptors

Carotid body receptors, *See under* Receptors

Carotid chemoreflex, *See under* Reflexes

Carotid endarterectomy, *See under* Surgery

Carotid sinus, *See under* Receptors, presso-; Receptors, pressoreceptors

Catecholamines, *See under* Brain, neurotransmitters; Sympathetic nervous system

Catheter introducers, *See under* Equipment

Catheters, *See under* Equipment; Monitoring

Caudal anesthesia, *See under* Anesthetic techniques, peridural

Causalgia, *See under* Sympathetic nervous system

Celiac plexus, *See under* Anatomy

Celiac plexus block, *See under* Anesthetic techniques

Cells

aerobic metabolism

effect of general anesthetics and pressure on, of monkey kidney cells (OA) [Brabec, Bedows, Davidson & Knight], **61:** 43

chemotaxis

in vitro, nitrous oxide decreases (LR) [Nunn & O'Morain], **56:** 45

chromatin

extraction of, in investigation of low-level binding of halothane metabolites to rat liver histones *in vivo* (OA) [Edmunds, Trudell & Cohen], **54:** 298

chromosomal alterations

in low-level binding of halothane metabolites to rat liver histones *in vivo* (OA) [Edmunds, Trudell & Cohen], **54:** 298

histones

rat liver, low-level binding of halothane metabolites to, *in vivo* (OA) [Edmunds, Trudell & Cohen], **54:** 298

lactate production

effect of general anesthetics and pressure on, of monkey kidney cells (OA) [Brabec, Bedows, Davidson & Knight], **61:** 43

motility

in vitro, nitrous oxide decreases (LR) [Nunn & O'Morain], **56:** 45

neutrophils

human, nitrous oxide decreases (LR) [Nunn & O'Morain], **56:** 45

replication

amino acids, enflurane and halothane effects on, in *Tetrahymena pyriformis*, compared (OA) [Conklin & Lau], **53:** 287

thymidine, enflurane and halothane effects on, in *Tetrahymena pyriformis*, compared (OA) [Conklin & Lau], **53:** 287

uridine

enflurane and halothane effects on, in *Tetrahymena pyriformis*, compared (OA) [Conklin & Lau], **53:** 287

halothane effects on, in Tetrahymena pyriformis (LR) [Conklin & Lau], **61:** 78

virus particles in

effect of halothane on, pressure reversal of (OA) [Bedows & Knight], **59:** 109

Central nervous system, *See under* Brain; Spinal cord

Central venous catheters, *See under* Equipment
Central venous pressure, *See under* Measurement techniques; Monitoring
Cerebellar infarction, *See under* Brain
Cerebral blood flow, *See under* Brain, blood flow
Cerebral blood volume, *See under* Brain
Cerebral glucose utilization, regional, *See under* Measurement techniques
Cerebral metabolism, *See under* Brain
Cerebral oxygen consumption, *See under* Brain
Cerebrospinal fluid
cutaneous fistula
subarachnoid-, treatment of, with epidural blood patch (CR) [Katz], **60:** 603
density
recurring error concerning time to correct (CO) [Davis], **55:** 715
disposition of morphine in, in intravenous injection into anesthetized dog (OA) [Hug, Murphy, Rigel & Olson], **54:** 38
endorphins
levels of, in patients with postoperative and chronic pain (OA) [Puig, Laorden, Miralles & Olaso], **57:** 1
leak
cutaneous, following attempted extradural block (CR) [Jawalekar & Marx], **54:** 348
myelogram
increased resistance to injection in, during spinal anesthesia (CO) [Glick], **57:** 64
opiates
injected into, central action of (CO) [Bahar, Ozer & Dundee], **55:** 334
pantopaque
increased resistance to injection in, during spinal anesthesia (CO) [Glick], **57:** 64
precipitation
of local anesthetic drugs (CR) [Moore], **57:** 129
pressure
and anesthetic management of pneumoencephalus (CO) [Wolf & Albin], **53:** 525
and cerebral blood flow, effect of positive end-expiratory pressure ventilation (PEEP) on, in goats (OA) [Doblar, Santiago, Kahn & Edelman], **55:** 244
diazepam and (CR) [Tateishi, Maekawa, Takeshita & Wakuta], **54:** 335
effects of nitroglycerin on, in awake and anesthetized patients (OA) [Dohi, Matsumoto & Takahashi], **54:** 511
during endotracheal suctioning, intravenously administered lidocaine in prevention of (CR) [Donegan & Bedford], **52:** 516
and ICP effects of volume loading during PEEP administration (CO) [Drummond, Todd & Shapiro], **57:** 62
intraoperative measurement of, in detection of tension pneumocephalus (CR) [Artru], **57:** 59
following isoflurane administration in neurosurgical patients (OA) [Adams, Cucchiara, Gronert, Messick & Michenfelder], **54:** 97
production
isoflurane does not increase, in dog (OA) [Artru], **60:** 193
and reabsorption, enflurane as influence on, in dog (OA) [Artru, Nugent & Michenfelder], **57:** 255
rapid drainage
in patient with hydrocephalus, cardiac arrest following (CR) [Alfrey, Shapiro & Gagnon], **52:** 443
reabsorption
isoflurane does not increase, in dog (OA) [Artru], **60:** 193
and production, enflurane as influence on, in dog (OA) [Artru, Nugent & Michenfelder], **57:** 255
reabsorption production
in dogs, effects of enflurane and isoflurane on resistance to (OA) [Artru], **61:** 529
volume
and precipitation of local anesthetic drugs into (CO) [Dudzniak], **58:** 388
Cervical anesthesia, *See under* Anesthetic techniques, epidural
Cesarean section, *See under* Anesthesia, obstetric; Pregnancy; Surgery
cGMP, *See under* Metabolism
Chemistry
fluorocarbons
pioneer in development of: Joseph H. Simmons (CO) [Brown], **61:** 549
Chemoreceptors, *See under* Receptors
Chemotherapy, *See under* Cancer
Chest wall, *See under* Ventilation
Children, *See under* Age factors; Anesthesia, pediatric
Chloroform, *See under* Anesthetics, volatile
Chloroprocaine, *See under* Anesthetics, local
Chlorpromazine, *See under* Ataractics, phenothiazines
Cholinesterase, *See under* Enzymes
Chromatography, *See under* Measurement techniques
Chronic pain, *See under* Pain
Cimetidine, *See under* Gastrointestinal tract; Histamine, antagonists; Pharmacology; Premedication
Circle absorber system, *See under* Equipment, circuits
Circuits, *See under* Equipment
Circulation, *See under* Arteries; Blood pressure; Heart; Microcirculation; Veins; individual organs; Reflexes
Circulatory shock, *See under* Shock
Cirrhosis, *See under* Complications; Liver
Citrate, *See under* Metabolism; Toxicity; Transfusion
Citric acid cycle, *See under* Metabolism
Clearance, *See under* Complications
Clonidine, *See under* Sympathetic nervous system
Closed-system anesthesia, *See under* Anesthetic techniques
Closing capacity, *See under* Lung(s)
Closing volume, *See under* Lung(s)
Coagulation, *See under* Blood
Coagulopathy, *See under* Blood
Coarctectomy, *See under* Surgery, vascular
Cocaine, *See under* Anesthetics, local
Codeine, *See under* Anesthetics, narcotic
CO_2 response, *See under* Ventilation
Colon, *See under* Gastrointestinal tract
Coma, *See under* Complications
Compartment syndrome, *See under* Complications
Complement, *See under* Immune response; Mediators
Compliance, *See under* Heart; Lung(s); Veins
Complications
accidents
in anesthesia management, analysis of: consideration for prevention and detection (OA) [Cooper, Newbower & Kitz], **60:** 34
associated with intraoperative exchanges of anesthesia personnel (SA) [Cooper, Long, Newbower & Philip], **56:** 456
bag mount detachment: a function of age? (CO) [Milliken], **56:** 154
drug packaging causing (CO) [Crowley & Barlow], **56:** 491
drug packaging causing (CO) [Ikeda & Schweiss], **56:** 489
drug packaging invites confusion (CO) [Freund & Ward], **55:** 87
endotracheal tube, early detection of, by monitoring carbon dioxide concentration in respiratory gas (CR) [Murray & Modell], **59:** 344
people fail more often than equipment (CO) [Misuraca], **57:** 430

separate low and high flow O_2 flowmeters: an interim solution (CO) [Rendell-Baker, Klein & Charles], **56:** 155
in use of interchangeable "quick-connect" couplers in medical gas outlets (CR) [Lane], **52:** 86

achondroplasia
and acute intermittent porphyria, ketamine induction for cesarean section in patient with (CR) [Bancroft & Lauria], **59:** 143

achondroplastic dwarfs
anesthesia for cesarean section in (CR) [Cohen], **52:** 264

acidosis
and severe hypoxia, following local anesthetic-induced convulsions (CR) [Moore, Crawford & Scurlock], **53:** 259

acromegaly
as indication for fiberoptic bronchoscopy but not tracheostomy (CO) [Ahlering & Brodsky], **52:** 100

acute intermittent porphyria
and achondroplastic dwarfism, ketamine induction for cesarean section in patient with (CR) [Bancroft & Lauria], **59:** 143

air embolism
balloon catheter in prevention of (CO) [Diaz], **57:** 66
basic facts relevent to placement of central venous catheters and Doppler monitors (CO) [Hills & Butler], **59:** 163
central venous catheters in management of (EV) [Michenfelter], **55:** 339
detection of (EV) [Albin], **58:** 113
in insertion of epidural catheter (CO) [Larson], **58:** 587
in insertion of epidural catheter (CO) [Naulty], **58:** 588
and placement of central venous catheters (CO) [Campkin], **56:** 406
positioning right atrial catheter for treatment, model for reappraisal (OA) [Bunegin, Albin, Helsel, Hoffman & Hung], **55:** 343
prevention of, while inserting central venous catheters (CO) [Horrow & Laucks], **57:** 350
prevention of, while inserting central venous catheters (CO) [Kopman], **57:** 349
with sheath introducer kit (CO) [Frankhouser], **57:** 429
transesophageal Doppler for detection of (OA) [Martin & Colley], **58:** 117
transesophageal echocardiography for detection of (OA) [Furuya, Suzuki, Okumura, Kishi & Uefuji], **58:** 124
venous, incidence of, during epidural catheter insertion (CR) [Naulty, Ostheimer, Datta, Knapp & Weiss], **57:** 410
venous, is not restricted to neurosurgery (CO) [Albin, Babinski, Gilbert & Smith], **59:** 151

airway
management of in obstetrics (CO) [Millar], **52:** 523
from methylmethacrylate (CR) [Cromwell], **52:** 89
obstruction
in endotracheal tube obstruction by nitrous oxide (CR) [Munson, Stevens & Redfern], **52:** 275
emergency transtracheal ventilation in (CO) [deLisser & Muravchick], **55:** 606
following surgical manipulation of posterior cranial fossa (CR) [Gorski, Rao & Scarff], **54:** 80
unusual cause for, in young healthy adult (CO) [Bishay, Echiverri, Abu-Zaineh & Lee], **60:** 610
in use of fiberoptic bronchoscope (CO) [Siegel & Coleprete], **61:** 214

Allen's test
modification of, to detect aberrant ulnar collateral circulation (CR) [Gandhi & Reynolds], **59:** 147

ammonia intoxication
from glycine absorption during urologic surgery (CR) [Roesch, Stoelting, Lingemen, Kahnoski, Backes & Gephardt], **58:** 577

amputation
following radial artery cannulation in patient with hyperlipoproteinemia Type V (CR) [Cannon & Meshier], **56:** 222

anaphylactoid reaction
to anesthetic drugs (EV) [Beaven], **55:** 3

anaphylaxis
to drugs used in anesthesia, in reaginic antibodies in sera (OA) [Fisher], **52:** 318
thiopental, immunoglobulin E fluctuation in (CR) [Etter, Helrich & Mackenzie], **52:** 181

anesthesia machines
failure, unusual, breakage of reservoir bag mount as (CO) [Stevenson & McLeskey], **53:** 270
unusual malfunction of (CO) [Chang, Larson, Bedger & Bleyaert], **52:** 446

anesthetic medicolegal
in deaths related to anesthesia (CO) [Engel], **52:** 93
in deaths related to anesthesia (CO) [Hamilton], **52:** 93
in deaths related to anesthesia (CO) [Turnbull, Smith & Bantling], **52:** 93
in deaths related to anesthesia (OA) [Keats], **52:** 93

ankylosing spondylitis
anesthetic management for surgical corrections of (CR) [Ovassapain, Land, Schafer, Cerullo & Zalkind], **58:** 370

aortic cannulation
during cardiopulmonary bypass, monitoring in prevention of (CO) [Granwehr], **55:** 338
inadvertent carotid cannulation in, in cardiopulmonary bypass (CR) [Ross, Lake & Wellons], **54:** 53

apnea
following epidural or intrathecal morphine administration (CO) [Jorgensen, Andersen & Engquist], **55:** 714
frequency of, in preterm infants as greater than in term infants following minor surgery (CR) [Steward], **56:** 304
postoperative, in premature infants, additional causes of (CO) [Fisher, Robinson & Gregory], **57:** 428
prolonged, after succinylcholine for cesarean section (CO) [Abouleish, MacMurdo, Caffo & Lubin], **55:** 478

arrest
cardiac
did anesthetic mismanagement contribute to intraoperative death from? (CO) [Giescke & Hilley], **61:** 792
did anesthetic mismanagement contribute to intraoperative death from? (CO) [Johnson], **61:** 791
did anesthetic mismanagement contribute to intraoperative death from? (CO) [Marschall], **61:** 792
did anesthetic mismanagement contribute to intraoperative death from? (CO) [Sievenpiper & Fallacaro], **61:** 791
as anesthetic mortality (CO) [Baraka], **52:** 283
associated with pneumocephalus (CO) [Toung, Donham & Campbell], **57:** 65
associated with tension pneumocephalus (CR) [Thiagarajah, Frost, Singh & Schulman], **56:** 73
from asystole after intravenous dantrolene sodium in pigs (CO) [Chapin, Lou & Wingard], **54:** 527
in asystole, succinylcholine infusion may cause (CO) [Greenfield & Rosenberg], **52:** 378
and brain resuscitation with barbiturates (EV) [Michenfelder], **57:** 74
in bupivacaine toxicity and bier block (CO) [Moore], **61:** 782
cerebral ischemia secondary to, pharmacokinetics of high-dose thiopental used in resuscitation in (CR) [Stanski, Mihm, Rosenthal & Kalman], **53:** 169
in combined use of halothane and gingival retraction cord (CR) [Hilley, Milam, Giescke & Giovannitti], **60:** 587

and death on induction of anesthesia for cervical mode biopsy (CR) [Keon], **55:** 471
ECT associated with, propranolol prior to (CO) [Wulfson, Askanazi & Finck], **60:** 255
in embolism secondary to limb exsanguination (CR) [Pollard, Lovelock & Jones], **58:** 373
enema-induced hypocalcemia and hyperphosphatemia leading to, during induction of anesthesia (CR) [Otteni, Pottecher, Bonner, Flesch & Diebolt], **59:** 358
and hemorrhage during laparoscopic tubal ligation (CR) [Chapin, Hurlbert & Scheer], **53:** 342
in patient with Eisenmenger's syndrome, Swan-Ganz catheter complication and (CR) [Devitt, Noble & Byrick], **57:** 335
during percutaneous ultrasonic nephrostolithotomy (CR) [Bennett, Smith & Fuchs], **60:** 245
following rapid drainage of cerebrospinal fluid in patient with hydrocephalus (CR) [Alfrey, Shapiro & Gagnon], **52:** 443

arrhythmia
associated with pulmonary artery catheterization, does prophylactic lidocaine control? (CR) [Salmenpera, Peltola & Rosenberg], **56:** 210
in combined use of halothane and gingival retraction cord (CR) [Hilley, Milam, Giescke & Giovannitti], **60:** 587
endotracheal, in airway-obstructing supraglottic edema following anesthesia with head positioned forced flexion (CR) [Bennett, Lee & Wright], **54:** 78
in epinephrine during halothane for closure of cleft palate (CR) [Ueda, Hirakawa & Mae], **58:** 574
intubation, in airway-obstructed supraglottic edema following anesthesia with head positioned in forced flexion (CR) [Bennett, Lee & Wright], **54:** 78
prevention of, in Wolff-Parkinson-White syndrome (OA) [Gomez-Arnau, Marquez-Montes & Avello], **58:** 307
following right atrial injection of acetylcholine in patient taking metoprolol (CR) [Rasch, Holt, Wilson & Smith], **59:** 593
during surgery in fourth ventricle: an indicator of brain-stem irritation (CR) [Drummond & Todd], **60:** 232

arthritis
acquired laryngeal deviation associated with cervical spine disease in (OA) [Keenan, Stiles & Kaufman], **58:** 441

aspiration
in achalasia of esophagus, upper-airway obstruction in (CR) [Travis, Saini & O'Sullivan], **54:** 87
in acid aspiration syndrome in pediatric patients, assessment of risk factors related to—gastric *p*H and residual volume (CR) [Cote, Goudsouzian, Liu, Dedrick & Szyfelbein], **56:** 70
acid, prophylaxis against in obstetric practice (CO) [Gillett, Watson & Langford], **60:** 525
and airway management in parturient (CO) [Parker], **60:** 167
and antacid therapy in obstetrics (CO) [Roberts & Shirley], **53:** 0
and cimetidine (CO) [Berman & Pate], **60:** 391
and cimetidine (CO) [Moir], **60:** 391
control of, orally administered antacid therapy during labor in, patient acceptance of (CO) [Dewan, Floyd, Grant, James, Wheeler, Westmoreland & Rhyne], **52:** 526
and dose-response effects of oral cemetidine on gastric pH and volume in children (OA) [Goudsouzian, Cote, Liu & Dedrick], **55:** 533
and effectiveness of sodium citrate as antacid (CR) [Gibbs, Spohr & Schmidt], **57:** 44
effectiveness of Bicitra® in prevention of (CR) [Gibbs & Banner], **61:** 97
gastric contents, in delayed gastric emptying in labor (CO) [Minno], **53:** 263
and gastric volume in early pregnancy, effect of metoclopramide (OA) [Wyner & Cohen], **57:** 209
iatrogenic airway foreign body (CO) [Hard & Nargozian], **61:** 786
maternal, cause and prevention of (CO) [Gibbs, Rolbin & Norman], **61:** 111
does metoclopramide decrease volume of gastric contents in patients undergoing cesarean section (CR) [Cohen, Jasson, Talafre, Chauvelot-Moachon & Barrier], **61:** 604
in obstetrics, challenge to use of *d*-tubocurarine prior to succinylcholine in prevention of (CO) [Crawford], **57:** 549
particulate antacids and (CO) [Eyler & Zaccari], **58:** 591
particulate antacids and (CO) [Gibbs & Banner], **58:** 592
of piece of endotracheal tube (CO) [Harrington], **61:** 116
pneumonia, postpartum perioperative risk of (CR) [James, Gibbs & Banner], **61:** 756
preanesthetic cimetidine and metoclopramide for prevention of, in elective surgery (OA) [Manchikanti, Marrero & Roush], **61:** 48
and precurarization in obstetrics (CO) [Conklin], **60:** 384
prevention of, and effect of domperidone on lower esophageal sphincter tone in late pregnancy (OA) [Brock-Utne, Downing, Dimopoulos, Rubin & Moshal], **52:** 321
prevention of, in rapid sequence induction in patients with full stomach (CO) [Baraka], **57:** 543
prophylaxis in midtrimester abortions? (CO) [Dehring & McDonald], **61:** 223
prophylaxis in midtrimester abortions? (CO) [White], **61:** 224
pulmonary
cimetidine, antacids, and (EV) [Moir], **59:** 81
following antacid therapy (CO) [Bassell & Gatha], **52:** 430

aspiration pneumonitis
sodium citrate for prophylaxis against (CO) [Stoops, Ravindran & Viegas], **58:** 201

asthma
aminophylline and anesthesia in (CO) [Stirt & Sternick], **57:** 252
anesthetic management in, and mechanism of action of inhalational anesthesia on airways (OA) [Hirshman, Edelstein, Peetz, Wayne & Downes], **56:** 107

atrial fibrillation
induced by right atrial injection of cold fluids during thermodilution cardiac output determination (CR) [Todd], **59:** 253

awareness
during fentanyl anesthesia (CO) [Mainzer], **56:** 331

barotrauma
prevention of (CO) [Herr & Liban], **60:** 260
pulmonary, demand valve improperly set resulting in (CR) [Banner & Boysen], **61:** 86

bilateral block
spread of, following interscalene brachial plexus block (CR) [Lombard & Couper], **58:** 472

bleeding
in disseminated intravascular coagulation following midtrimester abortions (CR) [White, Coe, Dworsky & Margolis], **58:** 99

blisters
formation, from contoured stethoscope (CR) [Wolf], **54:** 521

bradycardia
in beta-receptor blockade following use of eye drops (CR) [Samuels & Maze], **52:** 369
during cardiac output measurement by thermodilution (CR) [Nishikawa & Dohi], **57:** 538
in carotid sinus syndrome, intraoperative management facilitated by temporary transvenous demand pacing (CR) [Brown & Watson], **56:** 151
in glossopharyngeal neuralgia with syncope, anesthetic considerations in (CR) [Roa & Krupin], **54:** 426

transesophageal pacing for (CR) [Backofen, Schauble & Rogers], **61:** 777
broncho-carinal stimulation
study of effects of acute cardiac sympathectomy (OA) [Dohi, Nishikawa, Ujike & Mayumi], **57:** 359
broncho-pleural fistula
high-frequency positive-pressure ventilation in (CR) [Carlon, Ray, Klain & McCormack], **52:** 160
high-frequency positive-pressure ventilation in (EV) [Kirby], **52:** 109
bronchospasm
following interscalene brachial plexus block (CR) [Thiagarajah, Lear, Azar, Slazer & Zeiligsohn], **61:** 759
following intraocular injection of acetylcholine in patient taking metoprolol (CR) [Rasch, Holt, Wilson & Smith], **59:** 593
bullae
formation from contoured stethoscope (CR) [Wolf], **54:** 521
burns
in cannulation of internal jugular vein: cautionary note (CO) [Ellison, Jobes & Schwartz], **55:** 336
in children, neuromuscular effects of pancuronium in (CR) [Martyn, Lium Szyfelbein, Ambalabanar & Goudsouzian], **59:** 571
d-tubocurarine hyposensitivity related to, elevated plasma binding cannot account for (OA) [Liebel, Martyn, Szyfelbein & Miller], **54:** 378
electrosurgical
at site of esophageal temperature probe (CR) [Parker], **61:** 93
ignition of endotracheal tube during laser microsurgery (CO) [Hirshman & Leon], **53:** 177
ketamine in (RA) [White, Way & Trevor], **56:** 119
in laser-induced endotracheal tube fire (CR) [Cozine, Rosenbaum, Askanazi & Rosenbaum], **55:** 583
major, increased *d*-tubocurarine requirement following (CR) [Samuels & Maze], **52:** 369
prevention of, during laser microsurgery (CO) [Kumar & Frost], **54:** 350
thermal, caused by laryngoscope (CR) [Toung, Donham & Shipley], **55:** 184
cardiac
in bupivacaine toxicity as result of venous leakage during bier block (CR) [Rosenberg, Kalso, Tuominen & Linden], **58:** 95
cardiac herniation
management of, after intrapericardial pneumonectomy (CR) [Cassorla & Katz], **60:** 362
cardiovascular
during anesthesia in chronic spinal cord injured patients (MI) [Schonwald, Fish & Perkash], **55:** 550
catheters
pulmonary artery, in Eisenmenger's syndrome (CO) [Noble, Devitt & Byrick], **58:** 589
pulmonary artery, in Eisenmenger's syndrome (CO) [Robinson], **58:** 588
pulmonary artery, in inadvertent retrograde cannulation of persistent superior vena cava (CO) [Sprague & Sherwood], **53:** 268
catheters, central venous
percutaneous, hazard of (CO) [Watson & Simpson], **60:** 524
causalgia
treatment of (CO) [Szeinfeld & Palleres], **58:** 295
treatment of (CO) [Teeple & Ghia], **58:** 294
cerebral edema
following inadvertent carotid cannulation in cardiopulmonary bypass (CR) [Ross, Lake & Wellons], **54:** 85
chest pain
of esophageal origin during spinal anesthesia (CR) [Moon], **53:** 510
chest rigidity
prevention of, during fentanyl-oxygen induction of anesthesia (CR) [Hill, Nahrwold, Rosayro, Knight, Jones & Bolles], **55:** 452
clearance
of air emboli form superior vena cava, effects of cardiac output on (OA) [Martin, Ashleman & Colley], **60:** 580
coma
inadvertent carotid cannulation (CO) [Dalal & Patel], **55:** 487
compartment syndrome
bilateral, following prolonged surgery in lithotomy position (CR) [Lydon & Spielman], **60:** 236
convulsions
are not found with lidocaine or pentylenetetrazol administration after enflurane anesthesia in cats (OA) [Heavner & Amory], **54:** 403
associated with induction of anesthesia with (CR) [Poulton & Ellingson], **61:** 471
blood levels of bupivacaine resulting in (CO) [Fitzgibbons, Moore & Balfour], **55:** 476
bupivacaine: cardiotoxicity or anesthetic technique? (CO) [Conklin & Ziadlourad], **61:** 625
in bupivacaine toxicity as result of venous leakage during bier block (CR) [Rosenberg, Kalso, Tuominen & Linden], **58:** 95
in epileptics, methohexital and (CO) [Allen & Male], **56:** 240
in epileptics, methohexital and (CO) [Rockoff & Goudsouzian], **56:** 241
grand mal seizure, after fentanyl administration (CO) [Safwat & Daniel], **59:** 78
in high-dose methohexital anesthesia in humans (OA) [Todd, Drummond & Sang], **61:** 495
induced by methohexital (CR) [Rockoff & Goudsouzian], **54:** 333
and ketamine-aminophylline-induced decrease in seizure threshold (CR) [Hirshman, Krieger, Littlejohn, Lee & Julien], **56:** 464
in late-pregnant women, cardiopulmonary resuscitation in (CO) [Marx], **56:** 156
local anesthetic-induced, administer oxygen first in treatment of (CO) [Moore], **53:** 346
local anesthetic-induced, severe hypoxia and acidosis following (CR) [Moore, Crawford & Scurlock], **53:** 259
postoperative, following enflurane anesthesia (CR) [Kruczek, Albin, Wof & Bertoni], **53:** 175
as reaction to bupivacaine at low plasma concentration (CR) [Haselstrom & Morgensen], **61:** 99
seizures, induced by methohexital (CO) [Metriyakoo], **55:** 714
after translabrynthine acoustic neuroma excision and nitrous oxide anesthesia (CR) [Miller & Furman], **58:** 281
costoclavicular syndrome
and sitting position during anesthesia (CR) [Patel, Thien & Epstein], **53:** 341
CREST syndrome
anesthetic management of pregnant patient with (CR) [Thompson & Conklin], **59:** 69
Cruetzfeldt-Jacob disease
hospital-associated, and anesthesiologist (MI) [duMoulin & Hedley-Whyte], **59:** 51
cutaneous cerebrospinal fluid leakage, following attempted extradural block (CR) [Jawalekar & Marx], **54:** 348
cyanide toxicity
antidotes and methods of administration (OA) [Ivankovich, Braverman, Kanuru, Heyman & Paulissian], **52:** 210

nitroprusside-induced, increased resistance to, in anuric dogs (OA) [Tinker & Michenfelder], **52:** 40
death
anesthetic (CO) [Baraka], **52:** 283
on induction of anesthesia for cervical node biopsy (CR) [Keon], **55:** 471
misuse of enflurane (CO) [Lingenfelter], **55:** 603
delayed awakening
in ammonia intoxication during urologic surgery (CR) [Roesch, Stoelting, Lingemen, Kahnoski, Backes & Gephardt], **58:** 577
delirium
fentanyl-associated, in man (CR) [Crawford & Baskoff], **53:** 168
dental
modified laryngoscope for prevention of (CO) [Lisman, Shepherd & Rosenberg], **55:** 190
diabetes mellitus
and blood glucose control during surgery (EV) [Palumbo], **55:** 94
management of, continuous insulin infusion in (CO) [Clark, Seifen & Jordan], **56:** 332
management of, continuous insulin infusion in (CO) [Walts & Miller], **56:** 333
perioperative management of (OA) [Walts, Miller, Davidson & Brown], **55:** 104
tight perioperative control of, is it warranted? (CO) [Roizen], **56:** 242
diagnosis, x-ray
metrizamide and (CO) [Pyles & Parhayan], **58:** 590
dilation
endotracheal balloon cuff, of tracheostomal stenosis (CR) [Lebowitz, Geller & Andeweg], **57:** 323
disconnections
corrections concerning alleged disconnect alarm failure (CO) [Schreiber], **59:** 611
drug abuse
halothane, fatality from (CO) [Block & Rosenblatt], **52:** 524
drug reactions
to intravascular contrast media (RA) [Goldberg], **60:** 46
Duchenne's muscular dystrophy
and malignant hyperthermia: another warning (CO) [Rosenberg & Heiman-Patterson], **59:** 362
dural puncture
inadvertent, collapse after epidural injection following (CO) [Collier], **57:** 427
total spinal, inadvertent, epidural injection into interspace adjacent to, total spinal block after (RA) [Hodgkinson], **55:** 593
duro-cutaneous fistula
secondary to attempted epidural anesthesia, treatment of, with epidural autologous blood patch (CR) [Longmire & Joyce], **60:** 63
dysrhythmia
after methylmethacrylate (CR) [Brown & Parmley], **56:** 391
eclampsia
and hypertension in paraplegic parturient (CO) [Abouleish], **53:** 348
edema
reexpansion, during emergence from general anesthesia (CR) [Milne, Spence, Lynn & Sleeman], **59:** 244
uvula, without endotracheal intubation (CO) [Shulman], **55:** 82
Ehlers-Danlos syndrome
anesthetic considerations for (CR) [Dolan, Sisko & Riley], **52:** 266
embolism
as hazard of methylmethacrylate bone cement, new device increases (CO) [Westerlund], **54:** 90
pulmonary, immediate hemodynamic and pulmonary changes following (CR) [Mangano], **52:** 173
embolism, air
clearance of, from superior vena cava, effects of cardiac output on (OA) [Martin, Ashleman & Colley], **60:** 580
in upright neurosurgical patients, two-dimensional transesophageal echocardiography in (CR) [Cucchiara, Nugent, Seward & Messick], **60:** 353
emergence delerium
in interaction of propranolol and atropine (CO) [Hirshman & Downes], **53:** 525
emphysema
secondary lobar, development of bronchial obstruction with, during anesthesia (CR) [Spielman, Sprague, Mann & Mandell], **56:** 61
subcutaneous
from faulty resuscitation bag (CR) [Jumper, Desai, Lui & Philip], **58:** 572
in patient during CO_2 arthroscopy (CO) [Shupak, Shuster & Funch], **60:** 171
encephalitis
aseptic, epidural block in obstetrics followed by (CR) [Neumark, Feichtinger & Gassner], **52:** 518
epidermolysis bullosa dystrophica
airway management during anesthesia in patients with (CR) [James & Wrak], **56:** 323
epidural hematoma
Mayfield skull clamping causing (CR) [Baerts, de Lange, Booji & Broere], **61:** 462
epistaxis
following nasotracheal intubation (CR) [Scammon & Babin], **59:** 352
equipment
activated oxygen flush valve, failed release of (CO) [Bailey], **59:** 480
adaptor kit is available to update AVL valves (CO) [Luich], **58:** 200
adhesive tape obstructing anesthetic circuit (CO) [Frankel], **59:** 256
bellows, advantages of standing, and low-flow techniques (CO) [Blackstock], **60:** 167
cluttered, as cause for hypoxia (CO) [Henling & Diaz], **58:** 288
contamination of anesthesia system with liquid halothane (CR) [Zimmerman & Lord], **52:** 512
defective ventilator gas evacuation outlet valve, insidious PEEP from (CO) [Henzig], **57:** 251
disposable (CO) [Thys], **58:** 203
Dupaco ventilator valve assembly (CO) [Warren & Gintautas], **53:** 528
epidural needles, hairline cracks in (CR) [Ready], **52:** 370
faulty temperature probe (CO) [Chapin & Moravec], **52:** 187
further plea to standardize (CO) [Spielman & Wolf], **55:** 337
medical gas line systems, low failure rate for, in United Kingdom (CO) [Howell], **54:** 526
new
epidural catheter (CO) [Frankhouser], **58:** 293
epidural catheter (CO) [Lingenfelter], **58:** 292
failure of, to prevent delivery of hypoxic gas mixture (CO) [Davis], **54:** 437
failure of, to prevent delivery of hypoxic gas mixture (CO) [Malone], **54:** 436
oxygen pressure sensor shutoff valve failure in Ohio® "wedge" anesthesia machine (CO) [Jones, Watson & Goetter], **61:** 634
oxygen pressure sensor shutoff valve failure in Ohio® "wedge" anesthesia machine (CO) [Luich], **61:** 635

responsibility for: consumer vs. manufacturer (CO) [Boba], **57:** 547
scavenging circuit, and safe anesthetic gas pollution control (CO) [Miliken], **57:** 543
unusual cause of leakage in anesthesia system (CO) [Wolf, Watson & Clark], **55:** 83
ventilator hazard (CO) [Ciobanu & Meyer], **52:** 186
ventilator malfunction (CO) [Gaines & Rees], **60:** 260

equipment failure
anesthesia machine (CO) [Julien], **58:** 584
anesthesia machine (CO) [McMahon, Holm & Batra], **58:** 586
anesthesia machine, manufacturer's comment on (CO) [Luich], **58:** 585
anesthesia machine, manufacturer's comment on (CO) [Rosano], **58:** 587
bag mount detachment: a function of age? (CO) [Milliken], **56:** 154
Bain circuit breathing system (CO) [Brown, Canada & Graney], **55:** 716
in defect in T-fitting connection (CO) [Gold & Muravchick], **52:** 184
in defective Washington T-piece (CO) [Mantia], **59:** 167
flowmeter malfunction: effect on delivered anesthetic concentration (CO) [Doblar & Hinkle], **61:** 220
flowmeter malfunction: effect on delivered anesthetic concentration (CO) [Luich], **61:** 222
hazard of disposable diaphragm domes (CO) [Burns], **52:** 285
leakage in anesthesia system as (CO) [Moffett], **56:** 334
leakage in anesthetic system as (CO) [Rolbin], **56:** 334
in malassembly (CO) [Sprague], **56:** 413
in malfunction of Ohio Modulus® anesthesia machine (CO) [Children], **56:** 330
selector shunt valves, warning concerning hazards of (CO) [Deas], **56:** 239
in separate low and high flow O_2 flowmeters: an interim solution (CO) [Rendell-Baker, Klein & Charles], **56:** 155

errant epidular catheter (CR) [Blass, Roberts & Wiley], **54:** 419

esophageal perforation
following endotracheal intubation (CR) [O'Neill, Giffin & Cottrell], **60:** 487

esophagitis
during spinal anesthesia (CR) [Moon], **53:** 510

explosions
of colonic gas mixtures, etiologic factors in (CO) [Freund & Radke], **58:** 196
of colonic gas mixtures, etiologic factors in (CO) [Rumley], **58:** 195

Fanconi syndrome
and anesthesia (CR) [Joel & Rosales], **55:** 455

fire
as hazard of nitrous oxide during laser endoscopic surgery (CO) [Chilcoat, Byles & Kellman], **59:** 258

fixed-drug eruption
to thiopental (CO) [Taff], **57:** 543

foreign bodies
intrathoracic, thoracoscopy for retrieval of (CO) [Brodsky], **54:** 91

gangrene
following intra-arterial thiopental (CO) [Taff], **57:** 543
in intraarterial thiopental administration (CO) [Dundee], **59:** 154
intraarterial injection of 2.5% thiamylal does cause (CO) [Dohi & Naito], **59:** 154
lone case of, following intraarterial thiopental 2.5% (CO) [Mark], **59:** 153
following radial artery cannulation in patient with hyperlipoproteinemia Type V (CR) [Cannon & Meshier], **56:** 222

gastrobronchial fistula
intraoperative diagnosis of (CR) [Quasha & Pairolero], **52:** 175

glaucoma
and intraocular pressure after transurethral prostatic surgery (CR) [Peters, Muir & Wingard], **55:** 327

glossopharyngeal neuralgia
with syncope, anesthetic considerations in (CR) [Roa & Krupin], **54:** 426

headache
immediately following attempted epidural analgesia in obstetrics (CO) [Aherling & Brodsky], **52:** 100
in intracerebral hemorrhage after dural puncture and epidural blood patch (CO) [Benzon], **60:** 258
after lumbar dural puncture in obstetric anesthesia (CR) [Edelman & Wingard], **52:** 166
post-lumbar puncture, intracerebral hemorrhage following (CR) [Mantia], **55:** 680
postspinal, and epidural blood patch (CO) [Sternick & Stirt], **61:** 348
postural, following thoracic somatic paravertebral nerve block (CR) [Sharrock], **52:** 360
in use of sixteen-gauge Tuohy needles (CO) [Moore], **53:** 269

hematoma
in aterial puncture, safer jugular vein cannulation in prevention of (CR) [Jobes, Schwartz, Greenhow, Stephenson & Ellison], **59:** 353
peridural, and anticoagulation following placement of epidural and subarachnoid catheters (OA) [Rao & El-Etr], **55:** 618

hemidiaphragmatic paralysis
continuous positive airway pressure in (CR) [Robotham, Chipps & Shermeta], **52:** 167

hemiparesis
following interscalene block (CR) [Collier & Engelking], **61:** 342

hemorrhage
cerebral protection by isoflurane during (OA) [Newberg & Michenfelder], **59:** 29
during Nd-YAG laser resection for major tracheobronchial obstructing tumors (CO) [Vour'ch, Fischler, Personne, Colchen & Toty], **61:** 636
during Nd-YAG laser resection for major tracheobronchial obstructing tumors (CO) [Warner, Warner & Leonard], **61:** 637
in neodymium-YAG laser resection of major airway obstructing tumors (CR) [Warner, Warner & Leonard], **60:** 230
pulmonary, following nasogastric intubation (CR) [McDanal, Wheeler & Ebert], **59:** 356

hepatic
rat, in low-level binding of halothane metabolites to liver histones *in vivo* (OA) [Edmunds, Trudell & Cohen], **54:** 426

hepatitis
halothane, genetic differences in, in three rat strains (OA) [Gourlay, Adams, Cousins & Hall], **55:** 96
halothane, mystery of, pharmacogenetics and (EV) [Brown], **55:** 93
halothane-induced, editorial concerning (CO) [Blogg], **56:** 407
halothane-induced, editorial concerning (CO) [Brown], **56:** 408
halothane-induced, pharmacogenetics and (CO) [Cousins, Gourlay, Hall & Knights], **56:** 484

herpesvirus
hospital-associated, and anesthesiologist (MI) [duMoulin & Hedley-White], **59:** 51

hiccups
performance of phrenic nerve block for, value of fluoroscopy before (CR) [Benzon, Prasad & Barthwell], **55:** 469
treatment of, by continuous positive airway pressure in anesthetized subjects (CO) [Saitto, Gristina & Cosmi], **57:** 345

hoarseness
postoperative, succinylcholine-induced (OA) [Capan, Bruce, Patel & Turndorf], **59:** 202
hydrothorax
right, after left external jugular vein catheterization (CR) [Ghani & Berry], **58:** 93
hyperalimentation
in perioperative period (EV) [Biebuyck], **54:** 360
hypercarbia
due to unusual failure of anesthetic equipment (CR) [Detmer, Chandra & Cohen], **52:** 278
hyperkalemia
following spinal cord transection in rat (OA) [Carter, Sokoll & Gergis], **55:** 542
succinylcholine-induced, in patients with ruptured cerebral aneurysms (CR) [Iwatsuki, Kuroda, Amaha & Iwatsuki], **53:** 64
succinylcholine-induced, possible mechanism of (CO) [Gronert], **53:** 356
hypertension
in clondine withdrawal complicated by amitriptyline therapy (CR) [Stiff & Harris], **59:** 73
after intraoperative autotransfusion in bilateral adrenalectomy for pheochromocytoma (CR) [Smith, Mihm & Mefford], **58:** 182
following nitroprusside, and hepatic blood flow (CO) [Gelman & Patel], **54:** 90
in paraplegic parturient (CO) [Abouleish], **53:** 348
portal, intraoperative, in patients undergoing mixed-cell intraportal autotransplantation of pancreatic tissue (CR) [Torres, Traverso & Sohn], **53:** 427
prevention of, in endotracheal intubation, morphine-N_2O and fentanyl-N_2O anesthesia studies in (CR) [Bennett & Stanley], **52:** 520
pulmonary, pulmonary vascular response to (CO) [Bageshaw & Cox], **58:** 205
rebound, clinidine withdrawal, propranolol and (CO) [Kushins], **53:** 178
refractory
during coarctectomy (CR) [Wilkinson & Clark], **57:** 540
after sternectomy, high-dose fentanyl and (CR) [Edde], **55:** 444
during surgery in the fourth ventricle: an indicator of brain-stem irritation (CR) [Drummond & Todd], **60:** 232
hyperthermia
in genetic susceptibility to anesthesia (RA) [Gronert], **53:** 395
and ketoacidosis, during anesthesia in a child with glycogen-storage disease (CR) [Edelstein & Hirshman], **52:** 90
hypocalcemia
and disturbance of consciousness, after neomycin irrigation, and reversal of calcium and physostigmine (CR) [Yao, Seidman & Artusio], **53:** 69
hypokalemia
familial periodic paralysis (CR) [Melnick, Chang, Larson & Bedger], **58:** 263
hypotension
associated with paoramine reversal of heparin (CR) [Lowenstein, Johnson, Lapps, D'Ambra, Schneider, Daggett, Akins & Philbin], **59:** 470
canine model of acute coronary artery stenosis in study of effects of (OA) [Hickey, Verrier, Baer, Vlahakes, Fein & Hoffman], **59:** 226
in glossopharyngeal neuralgia with syncope, anesthetic considerations (CR) [Roa & Krupin], **54:** 426
as hazard of methylmethacrylate bone cement, new device increases (CO) [Westerlund], **54:** 90
intraoperative, caused by gastrografin-induced hypovolemia (CR) [Maneksha, Betta, Zawin & Poppers], **61:** 454
in massive intraoperative pulmonary tumor embolus from renal cell carcinoma (CR) [Milne, Cervenko, Morales & Salerno], **54:** 253
and nausea during spinal anesthesia for cesarean section, method of ephedrine administration and (CR) [Datta, Alper, Ostheimer & Weiss], **56:** 68
in pacemaker syndrome during anesthesia (CR) [Forand & Schweiss], **60:** 588
prolonged, tolerance for, in carotid sinus syndrome, and temporary transvenous demand pacing in facilitation of intraoperative management (CR) [Brown & Watson], **56:** 151
in prosthesis insertion during knee replacement without tourniquet (CR) [Samii, Elmelik, Goutalier & Viars], **52:** 271
spinal
during cesarean section, dopamine for treatment of (CR) [Clark & Brunner], **53:** 514
systemic
intraoperative, in patients undergoing mixed-cell intraportal autotransplantation of pancreatic tissue (CR) [Torres, Traverso & Sohn], **53:** 427
unusual cause of, after coronary artery bypass grafting (CR) [Pearson & Reves], **60:** 592
hypovolemia
gastrografin-induced, intraoperative hypoxia and hypotension caused by (CR) [Maneshka, Betta, Zawin & Poppers], **61:** 454
hypoxemia
following cardiopulmonary bypass (CR) [Byrick, Kolton, Hart & Forbath], **53:** 172
in premature infants, additional causes of (CO) [Fisher, Robinson & Gregory], **57:** 428
hypoxia
can we do without O_2 analyzers? (CO) [Ditchik & Herr], **61:** 629
from gas mixture, failure of new system to prevent (CO) [Davis], **54:** 43
from gas mixture, failure of new system to prevent (CO) [Milne, Cervenko, Morales & Salerno], **54:** 253
intraoperative, caused by gastrografin-induced hypovolemia (CR) [Maneshka, Betta, Zawin & Poppers], **61:** 454
simple, fool-proof method to prevent (CO) [Zorab], **60:** 515
and views of oxygen analyzers by public, attorneys and anesthesiologist (CO) [Feingold], **57:** 553
infection
millipore filters are not necessary for prevention of, with epidural block (CO) [Abouleish & Amortegui], **55:** 604
postoperative, bacterial air filters in reduction of (EV) [Mazze], **54:** 359
influenza
hospital-associated, and anesthesiologist (MI) [duMoulin & Hedley-White], **59:** 51
insufficiency
of arm in premature infants, stellate ganglion block for (CR) [Lagade & Poppers], **61:** 203
internal cuff herniation
as cause of tracheal tube obstruction (CO) [Famewo], **58:** 593
internal jugular vein thrombosis
after Swan-Ganz catheterization (CR) [Perkins, Cail, Bedford, Ellinger & Buschi], **61:** 456
intra-arterial injections
of thiopental (CO) [Taff], **57:** 543
intracerebral hematoma
and hemiparesis following dural puncture (CR) [Wedel & Mulroy], **59:** 475
intravascular
components of effective test dose for signaling, prior to epidural block (CR) [Moore & Batra], **55:** 689

injections, avoiding of, during epidural anesthesia (CO) [Schweitzer], **53:** 81
intravascular injection
components, as effective test dose prior to epidural block (CO) [Morison], **57:** 140
components as effective test dose prior to epidural block (CO) [Moore & Batra], **57:** 141
inadvertent, of 2-chloroprocaine, plasma levels of, and lack of sequelae following (CO) [Gross, Kuhnert, Kuhnert & Pimental], **54:** 173
during lumbar epidural anesthesia (CO) [Kenepp & Gutsche], **52:** 173
intubation
endotracheal
intracranial hypertension as, intravenously administered lidocaine prevention of (CR) [Donegan & Bedford], **52:** 518
during morphine-N_2O and fentanyl-N_2O anesthesia (CR) [Bennett & Stanley], **52:** 520
obstruction of anomalous tracheal bronchus with (CR) [Vredevoe, Brechner & Moy], **55:** 581
in partial severance of oronasotracheal tube during le Fort I procedure (CO) [Patel, Cotten & Turndorf], **53:** 357
pulmonary hemorrhage following (CR) [McDanal, Wheeler & Ebert], **59:** 356
with reinforced endotracheal tubes—a hazard alert (CO) [Rendell-Baker], **53:** 268
of use of microlaryngeal surgery endotracheal tube (CO) [Torres & Reynolds], **53:** 355
ischemia
in thromboangiitis obliterans, Allen's test in (CO) [Peters & Chapin], **53:** 85
Kawasaki disease
anesthetic implications (CR) [McHiece & Krishna], **58:** 269
ketoacidosis
and hyperthermia, during anesthesia in a child with glycogen-storage disease (CR) [Edelstein & Hirshman], **52:** 90
laryngospasm
pulmonary edema following (CO) [Jenkins], **60:** 611
pulmonary edema following (CO) [Melnick], **60:** 516
malignant hyperpyrexia
puzzles in (EV) [Gronert], **54:** 1
malignant hyperthermia
dantrolene and (CO) [Dolan], **57:** 246
halothane-induced ATP depletion in platelets from patients susceptible to (OA) [Giger & Kaplan], **58:** 347
human, dantrolene in (OA) [Kolb, Horne & Martz], **56:** 254
model of, modification of ryanosine toxicity by dantrolene and halothane in (OA) [Fairhurst, Hamamoto & Macri], **53:** 199
platelet aggregation in patients susceptible to (OA) [Rosenberg, Fisher, Reed & Addonizzio], **55:** 621
potential value of expiratory carbon dioxide measurement in patients considered to be susceptible to (CO) [Triner & Sherman], **55:** 482
at rest and in response to food and mild exercise, metabolic rate and blood hormone and metabolic levels of individuals susceptible to (OA) [Campbell, Ellis & Evans], **55:** 46
mediastinal lymphoma
cervical node biopsy, in, death on induction of anesthesia for (CR) [Keon], **55:** 471
meningitis
aseptic, epidural block in obstetrics followed by (CR) [Neumark, Feichtinger & Gassner], **52:** 518
methemoglobinemia
intravenous nitroglycerin, and respiratory distress in postoperative cardiac surgical patient (CR) [Zurick, Wagner, Starr, Lytle & Estafanous], **61:** 464
morbidity
perioperative, smoking and (MI) [Pearce & Jones], **61:** 576
mucocutaneous lymph node syndrome
anesthetic implications (CR) [McNiece & Kirshna], **58:** 269
muscle pain
challenge to use of *d*-tubocurarine prior to succinylcholine in prevention of (CO) [Crawford], **57:** 549
incidence of, failure of divided doses of succinylcholine to reduce (CR) [Wilson & Dundee], **52:** 273
myalgia
decreasing of, comparative evaluation of pretreatment with nondepolarizing neuromuscular blockers in, prior to administration of succinylcholine (CR) [Blitt, Carlson, Rolling, Hameroff & Otto], **55:** 687
postoperative, in outpatients, does "self-taming" decrease? (CO) [Siler, Cook & Ricca], **52:** 98
postoperative, succinylcholine-induced (OA) [Capan, Bruce, Patel & Turndorf], **59:** 202
prevention of (CO) [Brodsky], **56:** 488
myasthenia gravis
diagnostic value of systemic curare testing in (CR) [Balestrieri & Prough], **57:** 226
postoperative mechanical ventilation in, prediction of need for (OA) [Leventhal, Orkin & Hirsh], **53:** 26
myocardial infarction
and differences in reinfarction rates, due to differences in populations? (CO) [Rao], **61:** 214
and differences in reinfarction rates, due to differences in populations? (CO) [Rooke, Peterson, Faulhaber & Buffington], **61:** 213
is anesthesia beneficial for ischemic heart? II (EV) [Merin], **55:** 341
perioperative, guidelines for randomized trials to determine incidence of (CO) [Morris], **61:** 213
perioperative, in regional ischemic ventricular dysfunction in myocardium supplied by narrowed coronary artery with increasing halothane concentration in dog (OA) [Lowenstein, Foex, Francis, Davies, Yusuf & Ryder], **55:** 349
reinfarction following anesthesia in patients with (OA) [Rao, Jacobs & El-Etr], **59:** 499
myocardial ischemia
after coronary artery bypass surgery (CR) [Skarvan, Graedel, Hasse, Stulz & Pfisterer], **61:** 323
following spinal anesthesia in patient with idiopathic hypertrophic subaortic stenosis (CR) [Loubster, Suh & Cohen], **60:** 228
myoglobinemia
halothane-succinylcholine induced, inhibitory effect of intravenous *d*-tubocurarine and oral dantrolene on (CR) [Asari, Inoue, Maruta & Hirose], **61:** 332
myotonic dystrophy
early onset, caudal anesthesia for (CR) [Alexander, Wolf & Ghia], **55:** 597
nasotracheal intubation
guided (CO) [Adams], **58:** 105
nausea
in rostral spread of epidural morphine (OA) [Bromage, Camporesi, Durant & Nielsen], **56:** 431
neonatal sepsis
and anesthesia (CO) [Mayhew & Taylor], **59:** 77
presenting as delayed emergence from general anesthesia (CR) [Hinkle], **57:** 412
nerve damage
following alcohol neurolysis of celiac plexus, improved technique for prevention of (CR) [Singler], **56:** 137
in carotid-artery puncture during attempted cannulation of in-

ternal jugular vein, ipsilateral mydriasis following (CR) [Forestner], **52:** 438
cranial-nerve, and cardiorespiratory sequela of surgical procedures involving the posterior fossa (CR) [Artru, Cucchiara & Messick], **52:** 83
permanent paralysis of C-5 in, after cannulation of internal jugular vein (CO) [Frasquet & Belda], **54:** 528
postoperative, to phrenic and recurrent laryngeal nerves (CR) [Baraka, Hemady, Yamut, Yazigi & Canalis], **55:** 78

neurologic
evaluation of, in anticoagulation following placement of epidural and subarachnoid catheters (OA) [Rao & El-Etr], **55:** 618
after intrathecal morphine (CR) [Paulus, Paul & Munson], **54:** 517

neuropathy
and functional anatomy of cervical sympathetic trunk (CO) [McLeskey & Jaffe], **57:** 139
and functional anatomy of cervical sympathetic trunk (CO) [Vandam], **57:** 139
position-induced Horner's syndrome (CR) [Jaffe & McLeskey], **56:** 49

obesity
age, and gender, effect of, on midazolam kinetics (OA) [Greenblatt, Abernethy, Locniskar, Harmatz, Limjuco & Shader], **61:** 27
and effect of massive weight loss on arterial oxygenation and pulmonary function tests (OA) [Vaughan, Cork & Hollander], **54:** 325
elevated pulmonary wedge pressure resulting from upper respiratory obstruction in (CR) [Teeple & Ghia], **59:** 66
halothane biotransformation in (OA) [Bentley, Vaughan, Gandolfi & Cork], **57:** 94
massive weight loss will improve arterial oxygenation in, in selected patients (CO) [Sugerman & Fairman], **55:** 604
morbid, general anesthesia in—an examination of postoperative outcomes (OA) [Cork, Vaughan & Bentley], **54:** 310
morbid, one-lung anesthesia in (CR) [Brodsky, Wyner, Ehrenwerth, Merrell & Cohn], **57:** 132
pseudocholinesterase activity, and succinylcholine requirements (CR) [Bentley, Borel, Vaughan & Gandolfi], **57:** 48
recovery from general anesthesia in (CO) [Ladegaard-Pederson], **55:** 716

obstruction
endotracheal tube, possibly due to structural fault (CO) [Arai & Kuzume], **59:** 480

pain
glossopharyngeal neuralgic, with syncope, anesthetic considerations in (CR) [Roa & Krupin], **54:** 426

paralysis
of accessory nerve after cannulation of internal jugular vein (CO) [Hoffman], **58:** 583
following alcohol neurolysis of celiac plexus, improved technique for prevention of (CR) [Singler], **56:** 137
and hemiparesis following dural puncture (CR) [McDonald & Zaiden], **59:** 240
in intracerebral hemorrhage following post-lumbar puncture headache (CR) [Mantia], **55:** 680
intraoperative loss of somatosensory-evoked potentials in prediction of (CR) [Grundy, Nelson, Doyle & Procopio], **57:** 321
following succinylcholine in patient homozygous for silent gene (CR) [Oshita, Sari, Fujii & Yonei], **59:** 71

paralysis agitans
ketamine and (CO) [Hetherington & Rosenblatt], **52:** 527

paraplegia
of parturient, hypertension in (CO) [Abouleish], **53:** 348

penile turgescence
after high doses of fentanyl, cardiovascular effects of ketamine given to relieve (CR) [Roy], **61:** 610

pharyngeal perforation
following endotracheal intubation (CR) [O'Neill, Giffin & Cottrell], **60:** 487

phlebitis
vs. cutaneous vasodilatation (CO) [Stark & Miller], **52:** 188

pneumocephalus
after craniotomy, nitrous oxide and prevention of (CO) [Friedman], **58:** 196
intraoperative development of, nitrous oxide in (CR) [Artru], **57:** 59
intraoperative tension, nitrous oxide and (CO) [Frost], **58:** 197
subdural, resulting from drainage of cerebrospinal fluid during craniotomy (CR) [Grundy & Spetzler], **52:** 269
tension, prevention of (CO) [Toung, Donham & Campbell], **57:** 65

pneumochylothorax
rare complication of stellate ganglion block (CR) [Thompson, Melding & Hatangdi], **55:** 589

pneumonia
incidence of, after inhalation anesthesia, failure of bacterial filters to reduce (OA) [Garbaldi, Britt, Webster & Pace], **54:** 364
postoperative, bacterial air filters in reduction of (EV) [Mazze], **54:** 359
postoperative, sterile anesthesia breathing circuits do not prevent (OA) [Feeley, Hamilton, Xavier, Moyers & Eger], **54:** 369

pneumonitis
preanesthetic cimetidine and metoclopramide for prevention of, in elective surgery (OA) [Manchikanti, Marrero & Roush], **61:** 48

pneumothorax
during jet ventilation, avoiding of (CO) [Mette], **52:** 451
unilateral, following jet ventilation during general anesthesia (CR) [Chang, Bleyaert & Bedger], **53:** 244
with upper airway laser surgery (CR) [Ganfield & Chaplin], **56:** 398

pneumothorax, tension
during pediatric bronchoscopy (CR) [Gallagher & Muller], **55:** 681

porphyria
"inducible," general anesthesia in (OA) [Mustajoki & Heinonen], **53:** 15

pruritus
following epidural administration of morphine for relief of postsurgical pain (OA) [Weddel & Ritter], **54:** 210
in rostral spread of epidural morphine (OA) [Bromage, Camporesi, Durant & Nielsen], **56:** 431

pseudoaneurysm
as late complication of radial-artery catheterization (CR) [Mangano], **52:** 80
radial arterial, following cannulation (CO) [McLeskey], **53:** 266

psychiatric
ketamine may exacerbate (CO) [Guerra], **53:** 177

pulmonary
preoperative cessation of smoking and, in coronary artery bypass patients (CR) [Warner, Divertie & Tinker], **60:** 380

pulmonary artery catheters
in review of catheterization in 6,245 patients (OA) [Shah, Rao, Laughlin & El-Etr], **61:** 271

pulmonary artery rupture
in use of pulmonary artery catheter (CR) [McDonald & Zaiden], **59:** 240

pulmonary barotrauma
accidental disconnection and (CO) [Rendell-Baker & Myers], **58:** 286
pulmonary edema
acute, in healthy teenagers following conservative doses of intravenous naloxone (CR) [Prough, Roy, Bumgarner & Shannon], **60:** 485
intravenous verapamil to relieve, in miatral valve disease (CR) [Kopman], **58:** 374
following laryngospasm (CO) [Jenkins], **60:** 611
following naloxone administration in patient without heart disease (CR) [Taff], **59:** 586
postlaryngospasm, in adults (CO) [Melnick], **60:** 516
secondary to laryngospasm in children (CR) [Lee & Downes], **59:** 347
in use of pulmonary-artery catheter (CO) [Cullen & Silverstein], **52:** 96
in use of pulmonary-artery catheter (CO) [Morley], **52:** 96
pulmonary embolism
and Esmarch bandage (CO) [Mihic], **60:** 526
following radial artery cannulation (OA) [Slogoff, Keats & Arlund], **59:** 42
recall
during, fentanyl anesthesia (CO) [Mainzer], **56:** 331
regurgitation
following succinylcholine, pretreatment with nondepolarizing muscle relaxant does not decrease (CO) [Smith], **56:** 408
respiratory
following minor surgery, preterm infants are more prone to, than are term infants (CR) [Steward], **56:** 304
respiratory depression
early, with epidural narcotic and intravenous droperidol (CR) [Cohen, Rothblatt & Albright], **59:** 569
after intrathecal morphine (CR) [Paulus, Paul & Munson], **54:** 517
retinal hemorrhage
following anesthesia (CR) [Bolder & Norton], **61:** 595
retrolental fibroplasia
oxygen and (EV) [Flynn], **60:** 397
rigidity
following fentanyl anesthesia (CR) [Christian, Waller, & Moldenhauer], **58:** 275
fentanyl-induced, attenuation of (CR) [Jaffe & Ramsey], **58:** 562
rubella
hospital-associated, and anesthesiologist (MI) [duMoulin & Hedley-Whyte], **59:** 51
Rubenstein-Taybi syndrome
succinylcholine in (CO) [Stirt], **57:** 429
scleroderma
anesthetic management of pregnant patient with (CR) [Thompson & Conklin], **59:** 69
scoliosis
respiratory and cardiovascular functions in, and principles of anesthetic management (RA) [Kafer], **52:** 339
seizures
and activation of epileptogenic activity of etomidate (CR) [Gancher, Laxer & Krieger], **61:** 616
in bupivacaine cardiotoxicity in pregnant patient with mitral valve prolapse (CO) [Batra, Bridenbaugh, Caldwell, Crawford & Hecker], **60:** 170
grand mal, after fentanyl administration (CO) [Hoien], **60:** 387
following interscalene block (CR) [Collier & Engelking], **61:** 342
after metrizamide (CO) [Pyles & Pashayan], **58:** 590
and test doses of epidural anesthesia (CO) [Moore & Batra], **61:** 345
and test doses of epidural anesthetics (CO) [Abouliesh & Bourke], **61:** 344
shock
Second Annual Conference on (SM), **52:** 379
sinus bradycardia
following intravenous lidocaine injection (CR) [Demczuk], **60:** 69
smoking
asymptomatic smokers: ASA I or II? (CO) [Bayes], **56:** 76
sore throat
from intubation, prevention of, lubrication of tracheal tubes in (CR) [Stock & Downs], **57:** 418
postoperative, reduction of, with new endotracheal tube cuffs (CR) [Loeser, Bennett, Orr & Stanley], **52:** 257
postoperative, succinylcholine-induced (OA) [Capan, Bruce, Patel & Turndorf], **59:** 202
postoperative, what are real factors associated with? (CO) [Loeser & Stanley], **54:** 171
postoperative, what are real factors associated with (CO) [Youngberg], **54:** 171
spinal
during administration of spinal anesthesia (CO) [Glick], **57:** 64
spinal, total block
during local anesthesia of nasal passages (CR) [Hill, Gershon & Gargiulo], **59:** 144
status epilepticus
ketamine treatment of (CO) [Sybert & Kyff], **58:** 203
subarachnoid
components of effective test dose for signalling, prior to epidural block (CR) [Moore & Batra], **55:** 689
subarachnoid injection
components, as effective test dose prior to epidural block (CO) [Moore & Batra], **57:** 141
components, as effective test dose prior to epidural block (CO) [Morison], **57:** 140
subdural hematoma
after lumbar dural puncture (CR) [Edelman & Wingard], **52:** 166
tamponade
and death on induction of anesthesia for cervical node biopsy (CR) [Keon], **55:** 471
temperature
probe, failure a possible cause of (CO) [Ben-Zvi], **53:** 523
tension pneumocephalus
cardiac arrest associated with (CR) [Thiagarajah, Frost, Singh & Shulman], **56:** 73
(CO) [Marschall], **58:** 301
and intermittent drainage of ventricular CSF (CO) [Drummond], **60:** 609
intraoperative, nitrous oxide and (CO) [Frost], **58:** 197
prevention of, after craniotomy, nitrous oxide and (CO) [Friedman], **58:** 196
tension pneumoperitoneum
cause of ventilatory obstruction (CR) [Roberts, Blake & Bruggeman], **55:** 326
tetany
biochemical alterations during (CR) [Drop & Miller], **52:** 82
thrombocytopenia
and altered platelet kinetics associated with prolonged pulmonary-artery catheterization in dog (OA) [Richman, Kim & Marshall], **53:** 101
thrombosis
in abberant ulnar collateral circulation, modification of Allen's test to detect (CR) [Gandhi & Reynolds], **59:** 147
of arm in premature infants, stellate ganglion block for (CR) [Lagade & Poppers], **61:** 203

effect of method of radial artery cannulation on postcannulation blood flow and (CR) [Jones, Hill, Nahrwold & Bolles], **55:** 76
methods of radial artery cannulation and (CO) [Davis], **56:** 331
following radial artery cannulation in patient with hyperlipoproteinemia Type V (CR) [Cannon & Meshier], **56:** 222
risk of, aspirin and catheter size influencing (CO) [Cohen], **52:** 282
risk of, aspirin and catheter size influencing (OA) [Bedford], **52:** 282
venous, following cannulation of external jugular vein (CO) [Berry & Ghani], **56:** 411
thyrotoxicosis
mimicked malignant hyperthermia (CO) [Stevens], **59:** 263
Todd's paralysis
following interscalene block (CR) [Collier & Engelking], **61:** 342
total spinal block
inadvertent, collapse after epidural injection following (CO) [Crawford], **59:** 78
trace concentrations
exposure to, mortality rates and (CO) [Jeal], **52:** 281
tracheal intubation
in study of effects of acute cardiac sympathectomy (OA) [Dohi, Nishikawa, Ujike & Mayumi], **57:** 359
tracheal stenosis
prevention of, study of endotracheal tube cuff residual volume and lateral wall pressure in model trachea in (LR) [Tonnesen, Vereen & Arens], **55:** 680
tracheostomal stenosis
endotracheal balloon cuff dilatation of (CR) [Lebowitz, Geller & Andeweg], **57:** 323
trauma
major, recall of surgery for (OA) [Bogetz & Katz], **61:** 6
tympanic membrane
rupture after anesthesia with nitrous oxide (CR) [Perrault, Normandin, Plamondon, Blain, Rousseau, Girard & Forget], **57:** 325
unilateral block
cervical epidural (CR) [Catchlove & Germain], **60:** 147
urinary retention
following epidural administration of morphine for relief of postsurgical pain (OA) [Weddel & Ritter], **54:** 210
venospasm
peripheral, treatment of (CO) [Zymslowski], **60:** 261
ventilatory failure
postoperative, following intercostal block (CR) [Cory & Mulroy], **54:** 418
vomiting
preanesthetic cimetidine and metoclopramide for prevention of, in elective surgery (OA) [Manchikanti, Marrero & Roush], **61:** 48
weakness
hypokalemic familial periodic paralysis (CR) [Melnick, Chang, Larson & Bedger], **58:** 263
Compound 485, *See under* Anesthetics, volatile
Computer programs, *See under* Education
Computers, *See under* Equipment; Measurement techniques; Records, anesthesia; Statistics
Conduction, *See under* Nerve(s)
Conduction, nerve, *See under* Nerve(s)
Conduction nerve block, *See under* Nerve(s)
Conduction, neural, *See under* Nerve(s)
Conduction velocity, *See under* Nerve(s)
Congenital cardiac defects, *See under* Heart
Congenital defects, *See under* Genetic factors; individual organs
Connectors, *See under* Equipment
Consciousness, *See under* Anesthesia; Brain; Memory
Contamination, anesthetic, *See under* Anesthetics, trace concentrations; Equipment; Operating room; Toxicity
Continuous prostive airway pressure, *See under* Ventilation
Continuous fusion, *See under* Anesthetic techniques
Continuous infusion, *See under* Anesthetic techniques
Continuous Performance Test, *See under* Psychomotor function
Continuous positive pressure, *See under* Ventilation
Contractilism, *See under* Heart; Muscle; Uterus
Contractility, *See under* Heart; Muscle; Uterus
Contrast media, *See under* Equipment; Pharmacology
Controlled hypotension, *See under* Anesthetic techniques; Blood pressure
Controlled mechanical ventilation, *See under* Ventilation
Controlled ventilation, *See under* Ventilation
Convulsions, *See under* Anticonvulsants; Brain; Complications; Toxicity
Coronary arteries, *See under* Heart
Coronary artery bypass, *See under* Surgery
Coronary artery disease, *See under* Heart
Coronary occlusion, *See under* Heart
Corticosteroids, *See under* Hormones
Cortisol, *See under* Hormones
Cough, voluntary
normal, effects of endotracheal intubation on (OA) [Gal], **52:** 324
Coumarin, *See under* Blood, anticoagulants
Covalent binding, *See under* Biotransformation (drug)
Cpss (50), *See under* Potency, anesthetic
Craniotomy, *See under* Surgery
Creatine phosphokinase, *See under* Muscle, skeletal
CREST syndrome, *See under* Complications
Cricoid, *See under* Larynx
Crossmatch, *See under* Transfusion
Croup, postextubation, *See under* Complications
Cruetzfeldt-Jacob disease, *See under* Brain; Complications
Cryoanalgesia, *See under* Nerve block, freezing
Cryogenics, *See under* Analgesia, cryoanalgesia
Crystalloid fluid balance, *See under* Fluid balance
Cuffs, blood pressure, *See under* Equipment
Cuffs, endotracheal, *See under* Equipment
Cullen, Stuart C.
(Obituary) [Hamilton & Larson], **52:** 111
Curare, *See under* Neuromuscular relaxants, *d*-tubocurarine
Curare test, regional, *See under* Measurement techniques
Cutaneous fistula, *See under* Cerebrospinal fluid
Cyanide, *See under* Toxicity
Cyclazocine, *See under* Antagonists, narcotic
Cyclic GMP, *See under* Pharmacology
Cyclopropane, *See under* Anesthetics, gases
Cylinders, *See under* Equipment
Cytochrome P-450, *See under* Biotransformation (drug); Liver, microsomes

D

2,3-Diphosphoglycerate (2,3-DPG), *See under* Blood; Oxygen
Dantrolene, *See under* Hyperthermia, malignant pyrexia; Neuromuscular relaxants; Pharmacokinetics
Deadspace, *See under* Equipment; Lung(s); Ventilation
Deafness, *See under* Ear; Hearing
Death, anesthetic, *See under* Complications; Medicolegal
Decamethonium, *See under* Neuromuscular relaxants
Deep body thermometry, *See under* Measurement techniques
Defibrillators, *See under* Equipment
Defluorination, *See under* Biotransformation (drug); Ions, fluoride; Toxicity

Delayed awakening, *See under* Complications
Delirium, *See under* Complications; Psychologic responses; Recovery, *individual anesthetics*
Delivery systems, *See under* Oxygen
Demand valves, *See under* Equipment
Denervation, *See under* Muscle, skeletal; Neuromuscular junction
Density, *See under* Physics; Temperature
Dental anesthesia, *See under* Anesthesia
Depth of anesthesia, *See under* Anesthesia; Measurement techniques; Potency, anesthetic; *Individual anesthetics*
Dexamethasone, *See under* Pharmacology
Dextran, *See under* Allergy; Blood replacement; Microcirculation
Dezocine, *See under* Analgesics, narcotic
Diabetes, *See under* Anesthesia, obstetric; Complications; Metabolism
Diagnostic anesthesia, *See under* Anesthesia; Anesthetic techniques
Dial mixer, monitored, *See under* Equipment
Dialysis, *See under* Kidney
Diaphragm, *See under* Muscle, skeletal; Ventilation
Diazepam, *See under* Anesthetics, intravenous; Anticonvulsants; Ataractics; Hypnotics, benzodiazepines; Premedication
Dibucaine, *See under* Anesthetics, local
Diet, *See under* Nutrition
Diethyl ether, *See under* Anesthetics, volatile
Differential nerve block, *See under* Nerve
Differential ventilation, *See under* Lung(s); Ventilation
Diffusion, *See under* Pharmacokinetics
DiGeorge syndrome, *See under* Anesthesia, pediatric
Digitalis, *See under* Heart
Diltiazem, *See under* Pharmacology
Dinamap®, *See under* Equipment
Dioxychlorane, *See under* Anesthetics, volatile
Dioxyflurane, *See under* Anesthetics, volatile
Diphenhydramine, *See under* Histamine, antagonists
Dipyridamole, *See under* Pharmacology
Disconnections, *See under* Complications
Diseases
  renal failure
    pharmacokinetics and pharmacodynamics of atracurium in patients with and without (OA) [Fahey, Rupp, Fisher, Miller, Sharma, Canfell, Castagnoli & Hennis], **61:** 699
Disposables, *See under* Equipment
Distribution, *See under* Fluid balance; Pharmacokinetics; Solubility; Ventilation; *Individual organs*, blood flow
Disuse atrophy, *See under* Muscle, skeletal
Diuresis, *See under* Kidney
Diuretics, *See under* Kidney
DNA, *See under* Metabolism; Mitosis
Dobutamine, *See under* Heart; Pharmacology; Sympathetic nervous system
Domperidone, *See under* Vomiting, antiemetics
Dopamine, *See under* Heart; Neurotransmitters; Pharmacology; Receptors; Sympathetic nervous system
Dopaminergic antagonists, *See under* Antagonists
Doppler ultrasound, *See under* Equipment; Measurement techniques; Monitoring
Dorsal horn ganglia, *See under* Spinal cord
Dose-response, *See under* Pharmacology; Potency, anesthetic
Doxapram, *See under* Analeptics
dp/dt, *See under* Heart
Drapes, *See under* Equipment
Droperidol, *See under* Anesthetics, intravenous; Ataractics, butyrophenones; Hypnotics, butyrophenones; Vomiting, antiemetics
Drowning
  -near
    freshwater
      in dogs, comparison of ventilatory patterns in treatment of (OA) [Bergquist, Vogelhut, Modell, Sloan & Ruiz], **52:** 142
Drug distribution, *See under* Pharmacology
Drug interactions, *See under* Interactions (drug)
Drug metabolism, *See under* Metabolism
Drug reactions, *See under* Complications
Drugs. *See also under* Analgesics; Anesthetics; Ataractics; Biotransformation; Interactions; Pharmacology
  toxicity
    should affect drug choice (CO) [Fink], **57:** 426
Duador, *See under* Neuromuscular relaxants
Duchenne's muscular dystrophy, *See under* Complications; Muscle, skeletal
Dural puncture, *See under* Anesthetic techniques, spinal; Complications
Duration, *See under* Anesthesia
Duro-cutaneous fistula, *See under* Complications
Dwarf, achondroplastic, *See under* Achondroplastic dwarf
Dye dilution, *See under* Measurement techniques
Dysrhythmia, *See under* Complications; Heart
Dystonia, *See under* Muscle, skeletal

E

Ear
  eustachian tube
    neuroma excision
      and nitrous oxide anesthesia, symptomatic pneumocephalus after (CR) [Miller & Furman], **58:** 281
  middle ear
    neuroma excision
      and nitrous oxide anesthesia, symptomatic pneumocephalus after (CR) [Miller & Furman], **58:** 281
  middle ear pressure
    after anesthesia with nitrous oxide (CR) [Perreault, Normandin, Plamondon, Blain, Rousseau, Girard & Forget], **57:** 325
  tympanic membrane rupture
    after anesthesia with nitrous oxide (CR) [Perreault, Normandin, Plamondon, Blain, Rousseau, Girard & Forget], **57:** 325
    spontaneous, occurring in absence of middle ear disease (CO) [White], **59:** 368
Echocardiography, *See under* Equipment; Heart; Measurement techniques
Eckenhoff, J. E., Bart, A. J., Brunner, E. A., Holley, H. S., and Linde, H. W. (eds.)
  The Year Book in Anesthesia 1980 (BR), **56:** 77
Eckenhoff, J. E., Bart, A. J., Brunner, E. A., Holley, H. S. and Linde, H. W. (eds.)
  Yearbook of Anesthesia, 1979 (BR), **53:** 91
Edema, *See under* Brain; Complications; Lung(s); *specific systemic sites*
ED_{50}, *See under* Potency, anesthetic
Edrophonium, *See under* Antagonists, neuromuscular relaxants
Education
  computer programs
    and data exchange, computer network for (CO) [Ashman & Scamman], **60:** 386
  continuing
    Rovenstine Memorial Lecture, at annual meeting of American Society of Anesthesiologists (SA) [Hershey], **59:** 453
    critiquing anesthetic management in, "ATTENDING" computer system for (SA) [Miller], **58:** 362

instructions for safety check for CPRAM circuit (CO) [Abramowitz], **59:** 488
journals
anesthesia
six, survey of performance of (CO) [Fassoulaki, Mihas & Kaniaris], **53:** 346
learning objectives in, in American Board of Anesthesiology's "Quality Anesthesia Care," comment on (SA) [Dykes], **53:** 237
medical students
and ASA preceptorship; success in rural setting (CO) [Petty], **60:** 78
medical writing
editorials should elucidate not obfuscate (CO) [Scott], **57:** 554
observations and suggestions regarding art of public communication (CO) [Downing], **57:** 346
publications
use of negative exponents in (EV) [Michenfelder], **58:** 305
residents
in applied epidemiology, in need for anesthesiologists trained in epidemiology (CO) [Peterson, Rubin & Tyler], **53:** 263
attitudes of, toward parents' presence during anesthesia induction in children (CR) [Hannallah, Abramowitz, Oh & Ruttiman], **60:** 598
useful technique for teaching epidural anesthesia (CO) [Thomas, Arandia & Leal], **60:** 263
Eger, E. I., II
Isoflurane (Forane®) (BR), **55:** 610
Eisenmenger's syndrome, *See under* Heart; Lung(s)
Ejection fraction, *See under* Heart
Electrical stimulation, *See under* Anesthetic techniques; Brain
Electrical systems
burns
from EKG electrodes (CO) [Chandra], **56:** 157
in endotracheal tube ignition during laryngeal surgery with resectoscope (CR) [Rita & Seleny], **56:** 60
defect
high leakage current in new in-line blood warmer (CO) [Mantia], **54:** 257
high leakage current in new in-line blood warmer (CO) [Schmidt], **54:** 257
electrocautery
EKG electrodes, severe skin damage from (CO) [Chandra], **56:** 157
intraoperative explosion during methane gas and diet (CR) [Freund & Radke], **55:** 696
with resectoscope, for laryngeal surgery, endotracheal tube ignition during (CR) [Rita & Seleny], **56:** 60
surgical field flash fire associated with, during separation of dicephalus dipus conjoined twins (CR) [Ashcraft, Golladay & Guinee], **55:** 457
fire
in endotracheal tube ignition during laryngeal surgery with resectoscope (CR) [Rita & Seleny], **56:** 60
surgical field flash
during separation of dicephalus dipus conjoined twins (CR) [Ashcraft, Golladay & Guinee], **55:** 457
Electrocardiogram, *See under* Equipment; Heart; Monitoring
Electrocardiography, *See under* Electrical systems; Heart; Monitoring
Electrocautery, *See under* Electrical systems
Electroconvulsive therapy, *See also under* Brain
complications of, propranolol in prophylaxis of (CR) [Hood & Mecca], **58:** 379
Electrodes, *See under* Complications, burns; Electrical systems; Equipment; Heart, electrocardiography; Measurement techniques; Oxygen
Electrodes, *See under* Complications, burns; Electrical systems; Equipment; Heart, electrocardiography; Measurement techniques
Electroencephalogram, *See under* Brain; Equipment; Monitoring
Electroencephalograph, *See under* Equipment
Electroencephalography, *See also under* Brain; Monitoring
in evaluation of effect of fentanyl-induced seizures on subcortical brain metabolism (OA) [Tommasino, Maekawa & Shapiro], **60:** 283
Electrolytes, *See under* Acid-base equilibrium; Fluid balance; Ions
Electromagnetic flow probes, *See under* Equipment
Electromyelography, *See under* Measurement techniques
Electromyogram, *See under* Monitoring; Muscle, Skeletal
Electromyography, *See under* Measurement techniques
Electron spin resonance, *See under* Measurement techniques
Electronarcosis, *See under* Anesthetic techniques
Electrophysiology, *See under* Heart
Electroretinogram, *See under* Brain; Monitoring
Electroshock, *See under* Anesthesia
Embolism
air
arising from burr holes (CR) [Edelman & Wingard], **53:** 167
associated with pulmonary artery catheter introducer kit (CR) [Doblar, Hinkle, Fay & Condon], **56:** 307
balloon catheter in prevention of (CO) [Bunegin & Albin], **57:** 66
balloon catheter in prevention of (CO) [Diaz], **57:** 66
basic facts relevant to placement of central venous catheters and Doppler monitors (CO) [Hills & Butler], **59:** 163
carbon dioxide
during laparoscopy (CR) [Yacoub, Cardona, Coveler & Dodson], **57:** 533
in nitrous oxide intensification of pulmonary arterial pressure in dog (OA) [Steffey, Johnson & Eger], **52:** 52
central venous catheters in management of (EV) [Michenfelder], **55:** 339
in children undergoing suboccipital craniotomy (CR) [Cucchiara & Bowers], **57:** 338
clearance of, from superior vena cava, effects of cardiac output on (OA) [Martin, Ashleman & Colley], **60:** 580
and comparison of effects of positive end-expiratory pressure and jugular venous compression on canine cerebral venous pressure (OA) [Toung, Ngeow, Long, Rogers & Traystman], **61:** 169
detection of (EV) [Albin], **58:** 113
intraoperative development of, nitrous oxide (CR) [Artru], **57:** 59
multiorificed balloon catheter ideal for neuroanesthesia in patients at risk for (CO) [Hicks & Hummell], **59:** 261
paradoxical
implication for, and atrial pressures in seated position (OA) [Perkins-Pearson, Marshall & Bedford], **57:** 493
paradox of (CO) [Albin], **61:** 222
and placement of central venous catheters (CO) [Campkin], **56:** 406
positioning right atrial catheter for treatment, model for reappraisal (OA) [Bunegin, Albin, Helsel, Hoffman & Hung], **55:** 343
prevention of, in insertion of epidural catheter (CO) [Larson], **58:** 587
prevention of, in insertion of epidural catheter (CO) [Naulty], **58:** 588

prevention of, while inserting central catheters (CO) [Horrow & Laucks], **57:** 350
during radical hysterectomy (CR) [Naulty, Meisel, Datta & Ostheimer], **57:** 420
risk of, during catheter placement (CO) [Munshi & Rouman], **58:** 206
risk of, during catheter placement (CO) [Westheimer], **58:** 206
sitting position for neurosurgical procedures in prevention of (CO) [Cucchiara], **61:** 790
transesophageal Doppler for detection of (OA) [Martin & Colley], **58:** 117
transesophageal echocardiography for detection of (OA) [Furuya, Suzuki, Okumura, Kishi & Uefuji], **58:** 124
in use of sheath introducer kit (CO) [Frankhouser], **57:** 429
and valve competence of pulmonary artery catheter introducers (CR) [Conahan, Barberii & Calkins], **58:** 189
venous
incidence of, during epidural catheter insertion (CR) [Naulty, Ostheimer, Datta, Knapp & Weiss], **57:** 410
is not restricted to neurosurgery (CO) [Albin, Babinski, Gilbert & Smith], **59:** 151
use of pulmonary-artery catheter for detection and treatment of (OA) [Marshall & Bedford], **52:** 131
bone cement
methylmethacrylate, new device increases hazards of (CO) [Westerlund], **54:** 90
coronary
during venous cannulation (CR) [Horrow & Laucks], **56:** 212
paradoxical
detection of, by transesophageal echocardiography (CR) [Furuya & Okumura], **60:** 374
with patent foramen ovale, and sitting position (CO) [Fischler, Vourc'h, Dubourg & Bourdarias], **60:** 83
in upright neurosurgical patients, two-dimensional transesophageal echocardiography in (CR) [Cucchiara, Nugent, Seward & Messick], **60:** 353
venous, aminophylline, and volatile agents (CO) [Drummond], **60:** 389
pulmonary, *See also under* Complications
acute, during therapeutic arterial embolization with silicone fluids (CO) [deLange & Booij], **60:** 384
hypoxemia following (OA) [Fisher, Noble & Kay], **54:** 204
silicone
during therapeutic arterial embolization (CR) [Capan, Lardizabal, Sinha, Ashok, Berenstein & Turndorf], **58:** 569
therapeutic
silicone
acute pulmonary embolism during (CR) [Capan, Lardizabal, Sinha, Ashok, Berenstein & Turndorf], **58:** 569
therapeutic arterial
with silicone fluids, acute pulmonary embolism during (CO) [deLange & Booij], **60:** 384
thromboembolism
fatal, secondary to limb exsanguination (CR) [Pollard, Lovelock & Jones], **58:** 373
lung, during spinal anesthesia, diagnosis of (CR) [Berry], **57:** 57
massive intraoperative pulmonary tumor, from renal cell carcinoma (CR) [Milne, Cervenko, Morales & Salerno], **54:** 253
pulmonary thromboendarterectomy in, anesthetic management of (CR) [Brown, Bodary & Kirby], **61:** 197
during tumor resection, cerebellar infarction due to (CO) [Lyden & Kinyon], **60:** 619
venous oxygen
hydrogen peroxide may cause (CO) [Shah, Pedemonte & Wilcock], **61:** 631
Embolizing substance, *See under* Embolism
Emergency equipment, *See under* Equipment
EMMA, *See under* Measurement techniques
Emphysema, *See under* Complications; Lung(s), disease(s)
Encephalogram, *See under* Brain
Encephalography, *See under* Monitoring
Endarterectomy, *See under* Surgery
End-exhalation, *See under* Ventilation
Endobronchial techniques, *See under* Anesthetic techniques
Endobronchial tubes, *See under* Equipment, tubes
Endocardium, *See under* Heart
Endorphins, *See under* Brain; Cerebrospinal fluid; Hormones; Polypeptides
Endotoxin, *See under* Toxicity
Endotoxin shock, *See under* Shock
Endotracheal intubation, *See under* Intubation, endotracheal
Endotracheal technique, *See under* Anesthetic techniques
Endotracheal tubes, *See under* Equipment, tubes
End-tidal carbon dioxide concentrations, *See under* Carbon dioxide
End-tidal monitoring, *See under* Monitoring
End-tidal tension, *See under* Carbon dioxide
Enemas
hypertonic phosphate
hypocalcemia and hyperphosphatemia induced by, leading to cardiac arrest in outpatient surgery (CR) [Reedy & Zwiren], **59:** 588
Enflurane, *See under* Anesthetics, volatile
Enkephalins, *See under* Polypeptides
Enzyme induction, *See under* Biotransformation; Biotransformation (drug); Induction; Metabolism
Enzymes
cholinesterase
abnormal
succinylcholine neuromuscular blockade in subjects heterozygous for (OA) [Viby-Mogensen], **55:** 231
atypical
plasma, succinylcholine neuromuscular blockade in subjects homozygous for atypical plasma cholinesterase (OA) [Viby-Mogensen], **55:** 429
inhibitors, and nitrous oxide withdrawal syndrome (OA) [Rupreht, Dworacek, Ducardus, Schmitz & Dzoljic], **58:** 524
plasma
activity of, in subjects with genotypically normal enzyme, correlation of succinylcholine duration of action with (CR) [Viby & Mogensen], **53:** 517
rare types of
in two parturients (CO) [Abouleish, MacMurdo, Caffo & Lubin], **55:** 478
methionine synthetase
activity in rat testis, nitrous oxide inactivates (OA) [Brodsky, Baden, Serra & Kundomal], **61:** 66
activity in rats, no effect of hyperbaric oxygen on (LR) [Sharer, Monk & Nunn], **59:** 440
pseudocholinesterase
abnormal
postpartum patient with prolonged chloroprocaine epidural block in (CR) [Kuhnert, Philipson, Pimental & Kuhnert], **56:** 477
prolonged neuromuscular blockade following succinylcholine in patients with (CR) [Oshita, Sari, Fujii & Yonei], **59:** 71
activity, weight, and cuccinylcholine requirement (CR) [Bentley, Borel, Vaughan & Gandolfi], **57:** 48
atypical
response of patient with, to small intermittent succinyldicholine doses (CR) [Azar & Betcher], **54:** 519

hydrolysis kinetics for procaine and 2-chloroprocaine by (OA) [Raj, Ohlweiler, Hitt & Denson], **53:** 307
levels, and rates of chloroprocaine hydrolysis in patients receiving adequate doses of phospholine iodide (CR) [Lanks & Sklar], **52:** 434
in prolonged effect of succinylcholine in renal failure (CR) [Bishop & Hornbein], **58:** 384
Ephedrine, *See under* Sympathetic nervous system, sympathomimetic agents
Epidermolysis bullosa, *See under* Complications
Epidural, *See under* Anesthetic techniques, peridural, epidural
Epidural anesthesia, *See under* Anesthesia; Anesthetic techniques, peridural, epidural
Epidural blood patch, *See under* Anesthetic techniques
Epidural hematoma, *See under* Complications
Epidural morphine, *See under* Analgesia techniques
Epidural space, *See under* Anatomy
Epiglottis, *See under* Airway
Epilepsy, *See under* Brain
Epinephrine, *See under* Anesthetic techniques, spinal; Heart, arrhythmias; Sympathetic nervous system, catecholamines
Epistaxis, *See under* Complications; Intubation
Equipment
adapters
and simple system for transtracheal ventilation (CO) [Gildar], **58:** 106
adaptor
double-lumen tube, new improved (CR) [Andersen, Ozaki & Benumof], **56:** 54
air
prevention of, while inserting central catheters (CO) [Kopman], **57:** 349
airway
artificial
in anesthetic management of laryngeal foreign bodies (CR) [Roberts, Rayburn, Matlack & Nixon], **56:** 480
for ophthalmic and head and neck surgery (CO) [Bedger, Chang, Larson & Bleyaert], **58:** 199
bronchoscope
fiberoptic, modified oral airway for (CO) [Goldiner & Rooney], **60:** 506
comments from experienced user of (CO) [Williams], **61:** 108
device for filtering mouth-to-mouth resuscitation (CO) [Caccomo], **61:** 638
for fiberoptic endoscopy (CO) [Patil, Stehling, Zauder, & Koch], **57:** 69
alarms
and advantages of standing bellows ventilators and low-flow techniques (CO) [Graham], **58:** 486
disconnect, failure of (CO) [Graham], **58:** 486
failure, disconnect alarm, corrections concerning (CO) [Schreiber], **59:** 611
subatmospheric
another benefit of (CO) [Sprague], **54:** 526
analyzers
Engstromm EMMA, practical considerations in use of (CO) [Palayiwa & Evans], **61:** 112
oxygen
failure of battery-operated alarms of (CR) [Mazza & Wald], **53:** 246
failure to use to prevent hypoxic accidents (CO) [Rendell-Baker & Meyer], **58:** 287
anesthesia machines
activated oxygen fluch valve, failed release of (CO) [Bailey], **59:** 480
carbon dioxide as insufflating gas in, unusual case of hypercarbia during general anesthesia and (CR) [Klein & Lilburn], **53:** 248
cluttered, as cause for hypoxia (CO) [Henling & Diaz], **58:** 288
contamination of, with liquid halothane (CR) [Zimmerman & Lord], **52:** 512
failure
unusual, breakage of reservoir bag mount as (CO) [Stevenson & McLeskey], **53:** 270
fault in, due to design and lack of maintenance (CO) [McMahon, Holm & Batra], **58:** 586
fault in, due to design and lack of maintenance, manufacturer's comment on (CO) [Rosano], **58:** 587
Ohio Modulus®, tank wrench holder for (CO) [Wald & Neidzwski], **58:** 109
potentially fatal fault in (CO) [Julien], **58:** 584
potentially fatal fault in, manufacturer's comment on (CO) [Luich], **58:** 585
unusual malfunction of (CO) [Chang, Larson, Bedger & Bleyaert], **52:** 446
anesthesiologists
and their patients, bacterial interactions between (MI) [duMoulin & Hedley-Whyte], **57:** 37
angiography
in diagnosis of pulmonary embolism via flow-directed pulmonary artery catheter (CR) [Berry], **57:** 57
bacterial filters
failure of, to reduce incidence of pneumonia after inhalation anesthesia (OA) [Garibaldi, Britt, Webster & Pace], **54:** 364
Bain circuit
incorporation of positive end-expiratory pressure (PEEP) into (CO) [Erceg], **52:** 193
balloon catheter
singularity in pressure-volume curve for, and suppression of (CO) [Tyler], **60:** 504
battery-powered
method for prolonging life of batteries for (CO) [Russell], **56:** 233
blood filters
new fine-screen, comparative evaluation of (OA) [Cullen, Kunsman, Caldera, Dennis & Valeri], **53:** 3
blood warmer
in-line, new, high leakage current in (CO) [Mantia], **54:** 257
in-line, new, high leakage current in (CO) [Schmidt], **54:** 257
new in-line, testing of (CO) [Linko], **52:** 445
bronchoscope
fiberoptic
another use for (CO) [Patil, Stehling & Zauder], **55:** 484
to change endotracheal tubes in critically ill patients (CR) [Rosenbaum, Rosenbaum, Cole, Ashkanazi & Hyman], **54:** 169
complication of (CO) [Siegel & Coleprate], **61:** 214
in difficult pediatric intubation (C) [Ovassapian, Dykes & Yelich], **56:** 412
failure of, for endotracheal intubation fiberoptic gastroscope following (CR) [Shulman & Trollope], **56:** 476
indication for, but not tracheostomy, in acromegalic patient (CO) [Venus], **52:** 100
new use for, in one-lung anesthesia for pediatric thoracic bronchoscope (CR) [Watson, Bowe & Burke], **56:** 314
use of, to change endotracheal tube endorsed (CO) [Watson], **55:** 476
bypass valve
faulty (CO) [Julien], **58:** 584
faulty, manufacturer's comment on (CO) [Luich], **58:** 585

cannulas
arterial
inadvertent carotid cannulation with, in cardiopulmonary bypass (CR) [Ross, Lake & Wellons], **54:** 85
intravenous
standard colors for (CO) [Rendell-Baker], **58:** 194
carbon dioxide absorber
unusual failure of, occurrence of hypercarbia due to (CR) [Detmer, Chandra & Cohen], **52:** 278
catheters
arterial
in arterial cannulation, aid in (CO) [Edelman], **53:** 79
dynamic responses of, for direct measurements of blood pressure (LR) [Shinozaki, Deane & Mazuzan], **53:** 498
hemodynamic responses to preoperative cannulation with, in patients with coronary artery disease (CR) [Waller, Zaidan, Kaplan & Bauman], **56:** 219
radial arterial pseudoaneurysm following cannulation with (CO) [McLeskey], **53:** 266
in radial artery cannulation in patient with hyperlipoproteinemia Type V, extremity amputation following (CR) [Cannon & Meshier], **56:** 222
radial artery, replacement of (CO) [Brown], **55:** 333
size of, aspirin and (CO) [Cohen & Bedford], **52:** 282
and stellate ganglion block, for arterial insufficiency of arm in premature infants (CR) [Lagade & Poppers], **61:** 203
in technique for rapid catheterization of umbilical artery (CR) [Cole & Rolbin], **53:** 254
central
preventing air embolism while inserting (CO) [Horrow & Laucks], **57:** 350
preventing air embolism while inserting (CO) [Kopman], **57:** 349
central venous
in cannulation of internal jugular vein: cautionary note (CO) [Ellison, Jobes & Schwartz], **55:** 336
in cannulation of internal jugular vein: variation on theme (CO) [Christian], **55:** 335
double-lumen right atrial, for open heart surgery (CO) [Marquez, Sassano, Winter & Waterman], **58:** 394
in management of air embolism (EV) [Michenfelder], **55:** 339
percutaneous, hazard of (CO) [Watson & Simpson], **60:** 524
placement of, air embolism and (CO) [Campkin], **56:** 406
pseudoarterialization of, by infusion pump (CO) [Urquhart & Shupak], **59:** 79
successful placement of, from peripheral subcutaneous vein in children (CO) [Klein & Rudd], **52:** 447
unexpected location for placement of (CO) [Fischler, Tritz, Vurpillat, Rongier & Vourc'h], **60:** 616
epidural
new, hazard of (CO) [Frankhouser], **58:** 293
new, hazard of (CO) [Lingenfelter], **58:** 292
technique is critical variable in (CO) [Larson], **58:** 587
technique is critical variable in (CO) [Naulty], **58:** 588
flow-directed
airway thermistor, detection of end-exhalation period by (CR) [Oden, Mitchell & Benumof], **58:** 467
in balloon inflation *versus* impaction techniques, differences in pulmonary artery wedge pressures obtained by (CR) [Royster, Johnson, Prough, Johnston & Beamer], **61:** 339
catheterization with, internal jugular vein function after (CR) [Perkins, Cail, Beford, Elinger & Buschi], **61:** 456
complication related to, in patient with Eisenmenger's syndrome (CR) [Devitt, Noble & Byrick], **57:** 335
in diagnosis of pulmonary embolism during spinal anesthesia (CR) [Berry], **57:** 57
elevated pulmonary wedge pressure in use of, resulting from upper respiratory obstruction in obese patients (CR) [Teeple & Ghia], **59:** 66
flow-directed pediatric pulmonary artery, migration of (CR) [Moore, McNicholas, Gallagher & Niguidula], **58:** 102
flow-directed pulmonary artery, valve competence in introducers of (CR) [Conahan, Barberii & Calkins], **58:** 189
hemodynamic responses to preoperative cannulation with, in patients with coronary artery disease (CR) [Waller, Zaidan, Kaplan & Bauman], **56:** 219
inserted through external plastic shield, short-term sterility of (CR) [Johnston, Prough, Royster, Peacock, Gravlee, Mills & Cordell], **61:** 460
in internal jugular vein cannulation using anterolateral approach, transient phrenci nerve blockade during (CR) [Stock & Downs], **57:** 230
J-wore via external jugular vein (CR) [Schwartz, Jobes, Levy, Palermo & Ellison], **56:** 400
multiorificed balloon, ideal for neuroanesthesia (CO) [Hicks & Hummel], **59:** 261
in simplified pulmonary artery/right atrial pressure monitoring system (CO) [Gardner & Parker], **54:** 353
in thermodilution, slowing of heart rate during cardiac output measurement by (CR) [Nishikawa & Dohi], **57:** 538
in vivo response of, to nitrous oxide (LR) [du Boulay & Nahrwold], **57:** 530
flow-directed pulmonary artery
and catheter introducer kit, air embolism associated with (CR) [Doblar, Hinkle, Fay & Condon], **56:** 307
heparin-lock, for repeated anesthesia in pediatric radiation therapy (CR) [Rodarte], **56:** 316
introducer
Cordis, CVP measurement with fluid infusion (CO) [Brown], **55:** 485
jet
in jet ventilation during general anesthesia, unilateral pneumothorax following (CR) [Chang, Bleyaert & Bedger], **53:** 244
large sheath introducers, increasing functional gauge of side port of (CR) [Andersen, Benumof, Trousdale & Ozaki], **56:** 57
measurement of, in epidural space (CO) [Horrow], **58:** 198
peridural
errant (CR) [Blass, Roberts & Wiley], **54:** 419
two, to provide analgesia of unblocked segments in patient with lumbar disc disease (CR) [Schachner & Abram], **56:** 150
placement of, for cardiopulmonary bypass (CO) [Watson], **53:** 86
placement, risk of air embolism during (CO) [Munshi & Rouman], **58:** 206
placement, risk of air embolism during (CO) [Westheimer], **58:** 206
procedure for measuring length of, in epidural space (CO) [Jawalekar & Santos], **57:** 67
pulmonary artery
acute angulation of (CO) [Bromley & Moorthy], **59:** 367
and another CVP artifact (CO) [Davis], **60:** 262
in cannulation of internal jugular vein: cautionary note (CO) [Ellison, Jobes & Schwartz], **55:** 336
in cannulation of internal jugular vein: variation on theme (CO) [Christian], **55:** 335

for detection and treatment of venous air embolism (OA) [Marshall & Bedford], **52:** 131
doubling in left main pulmonary artery (CO) [Wilson, Moorthy, Mahomed & Vix], **60:** 266
to Eisenmenger's syndrome (CO) [Noble, Devitt & Byrick], **58:** 589
improved draping during use of (CO) [Ledray & Bashein], **57:** 423
inadvertent retrograde cannulation of persistent superior vena cava with (CO) [Sprague & Sherwood], **53:** 268
introducer kits (CO) [Frankhouser], **57:** 429
in investigation of atrial pressures in seated position (OA) [Perkins-Pearson, Marshall & Bedford], **57:** 493
ipsilateral balloon inflation of, blood flow manipulation by, in dogs—unilateral lung lavage (OA) [Alfery, Zamosi & Benumof], **55:** 376
malfunction (CO) [Campbell & Schwartz], **60:** 513
occlusion-shake test for (CO) [DiNardo & Satwicz], **61:** 349
in review of catheterization in 6,245 patients (OA) [Shah, Rao, Laughlin & El-Etr], **61:** 271
shake-flick test of (CO) [Mihm & Ashton], **59:** 262
sterile cover for repositioning (CO) [Erceg], **52:** 193
in study of improving oxygenation during one-lung ventilation in dogs (OA) [Alfery, Benumof & Trousdale], **55:** 381
triple-lumen, valve simplifies pressure monitoring from (CO) [Kotter], **52:** 284
for radial artery cannulation, and subsequent arterial occlusion (CO) [Davis], **56:** 331
right atrial
addition of balloon catheter to (CO) [Diaz], **57:** 66
addition of balloon catheters to (CO) [Bunegin & Albin], **57:** 66
for aspiration of air embolism arising from burr holes (CR) [Edelman & Wingard], **53:** 167
placement of, wire guide as intravascular ECG lead in (CR) [Westheimer], **56:** 478
positioning, model for reappraisal (OA) [Bunegin, Albin, Helsel, Hoffman & Hung], **55:** 343
in simplified method of external jugular vein cannulation (CO) [Lee & Chestnut], **60:** 81
standardization of (CO) [Stehling], **53:** 436
Swan-Ganz
air-filled balloon-tipped, nitrous oxide and (LR) [Kaplan, Abramowitz and Epstein], **55:** 71
in balloon inflation *versus* impaction techniques, differences in pulmonary artery wedge pressures obtained by (CR) [Royster, Johnson, Prough, Johnston & Beamer], **61:** 339
dynamic responses of, for direct measurements of blood pressure (LR) [Shinozaki, Deane & Mazuzan], **53:** 498
hemodynamic responses to preoperative cannulation with, in patients with coronary artery disease (CR) [Waller, Zaidan, Kaplan & Bauman], **56:** 219
and improved clinical measurement of pulmonary vascular resistance (CR) [Yelderman, New, Rosenthal & Ream], **52:** 365
inserted through external plastic shield, short-term sterility of (CR) [Johnston, Prough, Royster, Peacock, Gravlee, Mills & Cordell], **61:** 460
monitoring pulmonary arterial pressure with, in coronary-artery disease, **53:** 0
in prolonged catheterization in dog, thrombocytopenia and altered platelet kinetics associated with (OA) [Richman, Kim & Marshall], **53:** 101
in pulmonary artery catheterization, questions of benefit-to-hazard ratios with (EV) [Lowenstein & Teplick], **53:** 361
pulmonary artery catheterization with, pulmonary hemorrhage from, treated with endobronchial intubation (CR) [Stein & Lisbon], **55:** 694
sheath introducers, increasing functional gauge of side port of (CR) [Andersen, Benumof, Trousdale & Ozaki], **56:** 57
in short patient, erroneous CVP with (CO) [Salmenperä], **57:** 423
thrombocytopenia associated with (CR) [Kim, Richman & Marshall], **53:** 261
use of, not justified (CO) [Morley, Cullen & Silverstein], **52:** 96
for transtracheal ventilation (CO) [Gildar], **58:** 106
venous
in cannulation of internal jugular vein, caution in (CO) [Ellison, Jobes & Schwartz], **57:** 345
and catheter introducer sheaths, valve competence in (CR) [Conahan, Barberii & Calkins], **58:** 189
in new technique for location and cannulation of internal jugular vein (CO) [Gibbs & Arandia], **54:** 89
circuits
anesthetic, inseparable (CO) [Thys], **58:** 203
for applying CPAP to nonventilated upper lung during one-lung ventilation (CO) [Hannenberg, Satwicz, Dienes & O'Brien], **60:** 254
for applying CPAP to nonventilated upper lung during one-lung ventilation (CO) [Thiagarajah, Job & Rao], **60:** 253
Bain
breathing system, failure of (CO) [Brown, Canada & Graney], **55:** 712
circle
and total anesthesia machine failure during administration of anesthetic (CR) [Klein & Ali], **57:** 328
closed
economy is not major benefit of (CO) [Edsall], **54:** 258
in-circuit vaporizer for anesthesia with (CO) [Garlington & Neff], **54:** 434
use of charcoal to rapidly decrease depth of anesthesia while maintaining (CO) [Ernst], **57:** 343
coaxial
in controlled partial rebreathing anesthesia method, humidity measurements in children and adults using (OA) [Rayburn & Watson], **52:** 291
disposable
case for using (CO) [Viegas, Cummins, Ravindran & Stoops], **60:** 169
nonrebreathing
Bain (CO) [Dean & Keenan], **58:** 393
Bain (CO) [Nott & Norman], **58:** 392
environment, carbon dioxide, and milieu intérieur (CO) [Smith], **61:** 628
pediatric t-piece, practical way of using heated humidifiers with (CO) [Hannallah & McGill], **59:** 156
rebreathing and (CO) [Humphrey], **60:** 80
rebreathing and (CO) [Jones], **60:** 81
T-piece, factors affecting rebreathing in (CO) [Byrick], **55:** 85
T-piece, factors affecting rebreathing in (CO) [Keenan], **55:** 84
wasted ventilation measured *in vitro* with eight, with and without inline humidification (LR) [Coté, Petkau, Ryan & Welch], **59:** 442
old
new look at (CO) [Jones], **56:** 486

partial rebreathing
in anesthesia method, humidity in children and adults using (OA) [Rayburn & Watson], **52:** 291
scavenging
cross connection of, prevention of (CO) [Milliken], **57:** 543
semiclosed
and inadvertent inspiration of carbon dioxide (CO) [Hornbein & Glauber], **61:** 115
semi-open
in controlled partial rebreathing anesthesia method, humidity measurements in children and adults using (OA) [Rayburn & Watson], **52:** 291
and simplified method of CPAP delivery to nonventilated lung during unilateral pulmonary ventilation (CO) [Lyons], **61:** 216
T-piece
Bain, spontaneous breathing with (OA) [Dean & Keenan], **56:** 449
Mapleson D, spontaneous breathing with (OA) [Dean & Keenan], **56:** 449
respiratory waveform and rebreathing in, enflurane and halothane waveforms compared in (OA) [Byrick & Janssen], **53:** 371
and wasted ventilation (CO) [Epstein], **60:** 617
computers
"ATTENDING" for critiquing anesthetic management (SA) [Miller], **58:** 362
for automated EEG processing for intraoperative monitoring (MI) [Levy, Shapiro, Maruchak & Meathe], **53:** 223
DSA system, misleading (CO) [Dubois, Smith & Fleming], **52:** 101
hybrid multiple model used in studies of interactions among ventilation, circulation, and uptake and distribution of halothane (OA) [Fukui & Smith], **54:** 119
network for program and data exchange (CO) [Ashman & Scamman], **60:** 386
and pediatric worksheets for anesthesia (CO) [Kraemer & Stead], **60:** 520
program for safety check for CPRAM circuit (CO) [Abramowitz], **59:** 488
in rapid analysis by multipatient anesthetic mass spectrometry (SA) [Ozanne, Young, Mazzei & Severinghaus], **55:** 62
connectors
and advantages of standing bellows ventilators and low-flow techniques (CO) [Graham], **58:** 486
anesthetic circuit, adhesive tape obstructing (CO) [Frankel], **59:** 256
APL valves, adapter kit available to update (CO) [Luich], **58:** 200
coin in, as unusual cause for airway obstruction (CO) [Bishay, Echiverri, Abu-Zaineh & Lee], **60:** 610
defect in T-fitting connection (CO) [Gold, Muravchick & Riccio], **52:** 184
and disconnect alarm failure (CO) [Reynolds], **58:** 488
for fiberoptic study endoscopy (CO) [Patil, Stehling, Zauder & Koch], **57:** 69
inseparable disposable (CO) [Thys], **58:** 203
interchangeable "quick-connect", in medical gas outlets, hazard from (CR), **52:** 86
of liquid-filled catheter systems, for direct measurements of blood pressure, errors associated with (LR) [Shinozaki, Deane & Mazuzan], **53:** 498
separation of, and corrections concerning alleged disconnect alarm (CO) [Schreiber], **59:** 611
as source of leakage in anesthesia system (CO) [Wolf, Watson & Clark], **55:** 83
tracheal tube, for head and neck surgery (CO) [Shupak], **60:** 621
for transtracheal ventilation (CO) [Patel], **59:** 165
contrast media
intravascular
systemic reactions to (RA) [Goldberg], **60:** 46
cuffs
blood pressure
for automatic noninvasive monitoring, hazard of (CO) [Betts], **55:** 713
Dinamap® adaptation for (CO) [Zmysloski & Lena], **58:** 583
endotracheal
new, reduction of postoperative sore throat with (CR) [Loeser, Bennett, Orr & Stanley], **52:** 257
postoperative sore throat and, what are real factors associated with? (CO) [Loeser & Stanley], **54:** 171
postoperative sore throat and, what are real factors associated with? (CO) [Youngberg], **54:** 171
residual volume and lateral wall pressure in model trachea (LR) [Tonnesen, Vereen & Arens], **55:** 676
tracheal, and obstruction of intraluminal tracheal tube (CO) [Famewo], **58:** 593
cylinders
errors in pipeline gas concentration of, unanticipated consequence of defective check valve (CR) [Bageant, Hoyt & Epstein], **54:** 166
demand valves
improperly set resulting in pulmonary barotrauma (CR) [Banner & Boysen], **61:** 86
Dinamap®
potential deficiencies in modifying, for use in neonate (CO) [Kochansky], **60:** 171
disposable, inseparable (CO) [Thys], **58:** 203
Doppler
and central venous catheters, in patients at risk for air embolism (CO) [Hills & Butler], **59:** 163
in detection of air embolism (EV) [Albin], **58:** 113
in detection of air embolism in children undergoing suboccipital craniotomy (CR) [Cucchiara & Bowers], **57:** 338
for difficult axillary block (CO) [Abramowitz & Cohen], **55:** 603
esophageal, for detection of air embolism (OA) [Martin & Colley], **58:** 117
localization of internal jugular vein for central venous cannulation (CR) [Legler & Nugent], **60:** 481
and pulmonary-artery catheter, compared in detection and treatment of venous air embolism (OA) [Marshall & Bedford], **52:** 131
drapes
for pulmonary-artery catheterization (CO) [Ledray & Bashein], **57:** 423
echocardiography
for detection of air embolism (OA) [Furuya, Suzuki, Okumura, Kishi & Uefuju], **58:** 124
in evaluation of cardiac disease (EV) [Albin], **58:** 113
two-dimensional transesophageal, in detection and location of air embolism in upright neurosurgical patients (CR) [Cucchiara, Nugent, Seward & Messick], **60:** 353
electrical
nerve stimulator
peripheral nerve, electrode polarity and (CR) [Berger, Gravenstein & Munson], **56:** 402
electrocardiogram
failure, misdiagnosis due to (CO) [Shapiro, Jedeikin & Hoffman], **60:** 166

electrocardiography
precordial lead (V_5), capability of, by simple modification of EKG monitor leads (CO) [Nagel & Weeks], **53:** 179
electrodes
scalp, new technique for applying, for intraoperative EEG recording (CO) [Bonneau, Head, Artru, Chadwick & Colley], **60:** 523
electroencephalograph
automated processing of, for intraoperative monitoring (MI) [Levy, Shapiro, Maruchak & Meathe], **53:** 223
DSA system with, misleading (CO) [Dubois, Smith & Fleming], **52:** 101
interference with, by facial nerve stimulation (CO) [Artru, Chadwick, Colley & Momii], **59:** 605
in time-weighted averaging for nitrous oxide (LR) [McGill, Rivera & Howard], **53:** 424
electromagnetic flow probes
in aortic pulse-wave contour analysis, and thermodilution methods of measuring cardiac output, comparison of, during anesthesia in dog (OA) [English, Hodges, Sentker, Johansen & Stanley], **52:** 56
emergency
in labor suite (CO) [Boucek, Tyler, de la Vega & McKenzie], **61:** 478
endotracheal
obstruction of, by nitrous oxide (CR) [Munson, Stevens & Redfern], **52:** 275
use of flexible fiberoptic bronchoscope to change, in critically ill patients (CR) [Rosenbaum, Rosenbaum, Cole, Askanazi & Hyman], **54:** 169
Esmarch bandage
and massive pulmonary embolism (CO) [Mihic], **60:** 526
esophageal electrode
for monitoring esophageal electrocardiogram (CO) [Brown & Greenberg], **59:** 483
esophageal obturator airway
unusual complication of (CR) [Berkebile & Narla], **57:** 414
exhaust systems
for laser surgery of infant subglottic stenosis (CR) [Rita, Seleny & Holinger], **58:** 191
in operating room (SA) [Lecky], **52:** 157
scavenging system for, effective low-cost (CR) [Meyers], **52:** 277
for waste anesthetic gases, and regulatory agencies (SA) [Mazze], **52:** 248
failsafe
new
failure of, to prevent delivery of hypoxic gas mixture (CO) [Davis], **54:** 437
failure of, to prevent delivery of hypoxic gas mixture (CO) [Malone], **54:** 436
failure, *See also under* Complications
in anesthesia management; considerations for prevention and detection (OA) [Cooper, Newbower & Kitz], **60:** 34
bag mount detachment: a function of age? (CO) [Milliken], **56:** 154
low rate of, for medical gas line systems in United Kingdom (CO) [Howell], **54:** 526
in Ohio® "wedge" anesthesia machine (CO) [Jones, Watson & Goetter], **61:** 634
in Ohio® "wedge" anesthesia machine (CO) [Luich], **61:** 635
people fail more often than (CO) [Misuraca], **57:** 430
responsibility for: consumer vs. manufacturer (CO) [Boba], **57:** 547
unusual cause of leakage in anesthesia system causing (CO) [Wolf, Watson & Clark], **55:** 83
fiberoptic bronchoscope
tracheal intubation aided by, new and easy techniques for (CR) [Rogers & Benumof], **59:** 579
fiberoptic laryngoscope
for endotracheal intubation of anesthetized patients (CR) [Childres], **55:** 595
filters
bacterial
in breathing circuit (EV) [Mazze], **54:** 359
blood
evaluation of (CO) [Cullen], **54:** 432
charcoal
to rapidly decrease depth of anesthesia while maintaining closed circuit (CO) [Ernst], **57:** 343
evaluation of (CO) [Linko], **54:** 431
filth, fish and the common man (CO) [Busard], **55:** 608
millipore
are not necessary for epidural block (CO) [Abouleish & Amortegui], **55:** 604
in sterile anesthesia breathing circuits, do not prevent postoperative pulmonary infection (OA) [Feeley, Hamilton, Xavier, Moyers & Eger], **54:** 369
flow-directed catheters
in study of pressure-volume relationships of pulmonary artery catheter balloon (CR) [McDonald & Zaidan], **59:** 240
flowmeter
and back pressure check valves (CO) [Comm & Rendell-Baker], **56:** 327
Foregger 705° malfunction resulting in loss of gas flow (CR) [From, George & Tinker], **61:** 321
new system of, failure of, to prevent delivery of hypoxic gas mixture (CO) [Malone], **54:** 436
new system of, failure of, to prevent delivery of hypoxic gas mixture (CO) [Davis], **54:** 437
separate low and high flow O_2, hazard of: an interim solution (CO) [Rendell-Baker, Klein & Charles], **56:** 155
in system for on-line analysis of V_{O_2} and V_{CO_2} for clinical applicability (LR) [Shimada, Yoshiya, Hirata, Takezawa & Taenaka], **61:** 311
and total anesthesia machine failure during administration of anesthetic (CR) [Klein & Ali], **57:** 328
flush valve
slow, due to design and lack of maintenance (CO) [McMahon, Holm & Batra], **58:** 586
slow, due to design and lack of maintenance, manufacturer's comment on (CO) [Rosano], **58:** 587
gas analyzers
Beckman LB2® with halothane head, calibration curves of enflurane using (CO) [Goldman, Sherrill, De Campo & Aldrete], **53:** 79
gastroscope
fiberoptic
for difficult endotracheal intubation (CR) [Shulman & Trollope], **56:** 476
gingival retraction cord
and intraoperative death, did anesthetic mismanagement contribute to? (CO) [Johnson], **61:** 791
and intraoperative death, did anesthetic mismanagement contribute to? (CO) [Sievenpiper & Fallacro], **61:** 791
and intraoperative death, did anesthetic mismanagement contribute to? (CO) [Giesecke & Hilley], **61:** 792
and intraoperative death, did anesthetic mismanagement contribute to? (CO) [Marschall], **61:** 792

headrest
for retinal surgery in prone position (CO) [Wollman & Neuman], **61:** 109
hemofiltration
hematocrit and blood volume control during cardiopulmonary bypass with use of (CR) [Klineberg, Kam, Johnson, Cartmill & Brown], **60:** 478
Hope® II resuscitation bag, faulty, pulmonary barotrauma resulting from (CR) [Jumper, Desai, Liu & Philip], **58:** 572
humidifiers
disposable
evaluation of, for use during anesthesia (CR) [Weeks], **54:** 337
heated, practical way of using, with pediatric T-piece systems (CO) [Hannallah & McGill], **59:** 156
in volume ventilation systems for infants (CR) [Bazaral], **54:** 240
wasted ventilation measured *in vitro* with eight anesthetic circuits with and without (LR) [Coté, Petkau, Ryan & Welch], **59:** 442
infrared heat lamp
interferes with pulse oximeters (CO) [Brooks, Paulus & Winkle], **61:** 630
infusion pumps
dilutions, concentrations, and drug infusion rates for (CO) [Webb], **59:** 482
pseudoarterialization of CVP by (CO) [Urquhart & Shupak], **59:** 79
and vasoactive drug infusion (CO) [Kondo], **60:** 617
introducers
central catheters
preventing air embolism while inserting (CO) [Horrow & Laucks], **57:** 350
preventing air embolism while inserting (CO) [Kopman], **57:** 349
kits
self-sealing (CO) [Frankhouser], **57:** 429
for triple-lumen catheter, in short patient, erroneous CVP with (CO) [Salmenperä], **57:** 423
intubation, ***See also specific types***
nasotracheal
nylon embedded latex connector for (CR) [Bain & Spoerel], **60:** 497
J-wire
catheter guide, CVP catheter placement from antecubital veins using (CR) [Smith, Albin, Ritter & Bunegin], **60:** 238
for placement of right atrial catheter (CO) [Munshi & Rouman], **58:** 206
for placement of right atrial catheter (CO) [Westheimer], **58:** 206
labeling
and erroneous labeling of nitrous oxide cylinder (CO) [Sawhney & Yoon], **59:** 260
laryngoscope
adjustable handle on, for difficult intubations (CO) [Patil, Stehling & Zauder], **60:** 609
another way to insert Mackintosh blade (CO) [Bourke & Lawrence], **59:** 80
blade, left-entry, in right-sided oro-facial lesions (CO) [Lagade & Poppers], **58:** 300
fiberoptic
for airway management in patients with acromegaly (CO) [Messick, Cucchiara & Faust], **56:** 157
to avoid tracheostomy, in acromegaly (CR) [Ovassapian, Doka & Romsa], **54:** 429
technique to facilitate use of (CO) [Wangler & Weaver], **61:** 111
Mackintosh blade, modification of (CO) [Ibler], **58:** 200
modified
for endotracheal intubation of neonates (CO) [Hencz], **53:** 84
modified blade for, for rat intubation (CO) [Morgan], **57:** 431
modified blade of, for dental protection (CO) [Lisman, Shepherd & Rosenberg], **55:** 190
new anatomic (CO) [Beukes], **57:** 552
new pediatric (CO) [Matsuki], **57:** 556
pediatric
modification of (CO) [Moynihan], **56:** 330
polio blade, revival of (CO) [Lagade & Poppers], **57:** 545
replaced by flexible fiberoptic bronchoscope for changing endotracheal tubes in critically ill patients (CR) [Rosenbaum, Rosenbaum, Cole, Askanazi & Hyman], **54:** 169
thermal burn caused by (CR) [Toung, Donham & Shipley], **55:** 184
laser
carbon dioxide
microsurgery of larynx, risk of endotracheal intubation for (CO) [Palas], **55:** 714
CO_2, degradation of methylmethacrylate (CO) [Kroll, Morris & Norton], **61:** 115
in endoscopic surgery, hazard of nitrous oxide during (CO) [Chilcoat, Byles & Kellman], **59:** 258
in microsurgery, prevention of fire hazard during (CO) [Kumar & Frost], **54:** 350
neodymium-YAG
for major tracheobronchial obstructing tumors, anesthetic management during (CO) [Vourc'h, Fischler, Personne, Colchen & Toty], **61:** 636
for major tracheobronchial obstructing tumors, anesthetic management during (CO) [Warner, Warner & Leonard], **61:** 637
for resection of major airway obstruction tumors, anesthesia for (CR) [Warner, Warner & Leonard], **60:** 230
lightwand
nasotracheal intubation guided by, complication of (CR) [Stone, Stirt, Kaplan & McLean], **61:** 780
machine(s)
anesthesia
back pressure check valves in, as hazard (CO) [Comm & Rendell-Baker], **56:** 327
bag mount detachment: a function of age? (CO) [Milliken], **56:** 154
CO_2 absorber malassembly (CO) [Luich], **59:** 608
exposed O_2 flush hazard in (CO) [Andersen & Rendell-Baker], **56:** 328
flowmeter malfunction: effect on delivered anesthetic concentration (CO) [Luich], **61:** 222
Foregger 705° malfunction resulting in loss of gas flow (CR) [From, George & Tinker], **61:** 321
leakage in (CO) [Moffett], **56:** 334
leakage in (CO) [Rolbin], **56:** 333
malassembly of (CO) [Sprague], **56:** 413
Ohio Modulus®, malfunction of (CO) [Childres], **56:** 330
Ohio® "wedge", oxygen pressure sensor shutoff valve failure in (CO) [Jones, Watson & Goetter], **61:** 634
Ohio® "wedge", oxygen pressure sensor shutoff valve failure in (CO) [Luich], **61:** 635
with separate low and high flow O_2 flowmeters: an interim solution (CO) [Rendell-Baker, Klein & Charles], **56:** 155

unusual cause of leakage in (CO) [Wolf, Watson & Clark], **55:** 83
APL valves, adapter kit available to update (CO) [Luich], **58:** 200
explosion (CO) [Webb, Warren & Ackroyd], **57:** 343
manometers
mechanical sphygmomanometry, modification of Dinamap® for (CO) [Riopelle], **57:** 245
masks
anesthesia
in halothane induction, increased plasma norepinephrine concentrations in (OA) [Joyce, Roizen, Gerson, Grobecker, Eger & Forbes], **56:** 286
inseparable from circuit (CO) [Thys], **58:** 203
for ophthalmic and head and neck surgery (CO) [Bedger, Chang, Larson & Bleyaert], **58:** 199
for fiberoptic endoscopy (CO) [Patil, Stehling, Zauder & Koch], **57:** 69
mass spectometer
multipatient anesthetic, in rapid analysis of data stored in long catheters (SA) [Ozanne, Young, Mazzei & Severinghaus], **55:** 62
in system for on-line analysis of V_{O_2} and V_{CO_2} for clinical applicability (LR) [Shimada, Yoshiya, Hirata, Takezawa & Taenaka], **61:** 311
Mayfield skull clamp
complications of (CR) [Baerts, de Lange, Booij & Broere], **61:** 462
medical gas systems
error in pipeline gas concentration of unanticipated consequence of defective check valve (CR) [Bageant, Hoyt & Epstein], **54:** 166
monitored dial mixer
and total anesthesia machine failure during administration of anesthetic (CR) [Klein & Ali], **57:** 328
monitors
in direct blood pressure measurement—dynamic response requirements (MI) [Gardner], **54:** 227
disposable diaphragm domes, hazard of (CO) [Burns], **52:** 285
failure of battery-operated alarms of (CR) [Mazza & Wald], **53:** 246
"lines," a few lines about, in medical jargon (CO) [Zauder], **53:** 271
low cost, comfortable and effective anesthesia earpiece for (CO) [Swenson], **55:** 607
overshoot of waveforms on, of liquid-filled catheter systems for direct measurements of blood pressure (LR) [Shinozaki, Deane & Mazuzan], **53:** 498
oxygen
plea for routine use of (CO) [Marks], **59:** 159
use of should be mandatory (CO) [Dorsch & Dorsch], **59:** 161
preoperative invasive
and coronary artery disease (CO) [Gardner, Parker & Wong], **52:** 525
rate-pressure product (CR) [McMahon, Mulroy & Balfour], **53:** 508
simple, for remote monitoring of respiration of pediatric patients (CO) [Saunders & Humphrey], **55:** 609
nasogastric tube
simpler method for insertion of (CO) [Huang], **58:** 107
needles
bevel
direction of, and epidural anesthetic spread (CR) [Park, Poon, Massengale & Macnamara], **57:** 327
butterfly
in method for distinguishing arterial from venous puncture (CO) [Lichtor & Odell], **52:** 448
epidural
hairline cracks in (CR) [Ready], **52:** 370
hub insert, in prevention of epidural catheter buckling (LR) [Pingchak, Podlipsky & Hagen], **59:** 559
in simplified method of external jugular vein cannulation (CO) [Lee & Chestnut], **60:** 81
sixteen-gauge Tuohy, should be abandoned (CO) [Moore], **53:** 269
nerve stimulators
in assessment of neuromuscular blockade (CR) [Stiffel, Hameroff, Blitt & Cork], **52:** 436
and milliamperage requirements for supramaximal stimulation of ulnar nerve with surface electrodes (CR) [Kopman & Lawson], **61:** 83
peripheral, evaluation of, and relationship to possible errors in assessing neuromuscular blockade (LR) [Mylrea, Hameroff, Calkins, Blitt & Humphrey], **60:** 464
stimulation of facial nerve with, interference with processed electroencephalographic recording by (CO) [Artru, Chadwick, Colley & Mommii], **59:** 605
oximeters
in measurement of alteration of hemoglobin, following fluorescein administration (CR) [Berry, Yin & Hoyt], **53:** 67
pulse, infrared heat lamp interferes with (CO) [Brooks, Paulus & Winkle], **61:** 630
oxygen analyzers
audio vs. visual oxygen alarm for (CO) [Steward, Pelton & Brummitt], **52:** 192
back pressure check valve in, as hazard (CO) [Comm & Rendell-Baker], **56:** 327
Beckman D2®, moisture-proofing of (CO) [Bandy & Finch], **52:** 190
can we do without? (CO) [Ditchik & Herr], **61:** 629
plea for routine use of (CO) [Marks], **59:** 159
use of should be mandatory (CO) [Dorsch & Dorsch], **59:** 161
viewed by public, attorneys, and anesthesiologist (CO) [Feingold], **57:** 553
oxygen delivery systems
bulk, hospital, hazards of (SA) [Bancroft, du Moulin & Hedley-Whyte], **52:** 504
oxygen insufflation device
for insufflation with continuous positive airway pressure during one-lung ventilation (CO) [Brown & Davis], **61:** 481
oxygen measuring device
transconjuctival
in critical care medicine (CO) [Yelderman], **59:** 266
oxygen monitor
and case for monitoring oxygen in expiratory limb of circle (CO) [Meyer], **61:** 347
pacemakers
preoperative and intraoperative care in (RA) [Zaiden], **60:** 319
packaging
life-threatening similarity in (CO) [Crowley & Barlow], **56:** 491
life-threatening similarity in (CO) [Ikeda & Schweiss], **56:** 489
patient transfer
garbage bag for (CO) [Yamashita & Matsuki], **59:** 168
operating table to bed (CO) [Drummond & Sager], **57:** 549
percutaneous catheter inducers
pulmonary artery, air embolism associated with (CR) [Doblar, Hinkle, Fay & Condon], **56:** 307

percutaneous catheter introducers
pulmonary artery, valve competence in (CR) [Conahan, Barberii & Calkins], **58:** 189
peripheral nerve stimulator
simple device for testing (CO) [Sarnat], **61:** 624
piezoelectric transducer
monitoring anesthetic vapor concentration using (LR) [Hayes, Westenskow & Jordan], **59:** 435
pin-indexing
on gas supply column face, and an unusual case of hypercarbia during general anesthesia (CR) [Klein & Lilburn], **53:** 248
pseudocholinesterase
activity, in obstetric patients and their neonates after epidural anesthesia (OA) [Kuhnert, Kuhnert, Prochaska & Gross], **53:** 21
pulmonary artery
in Eisenmenger's syndrome (CO) [Robinson], **58:** 588
rebreathing bags
pediatric
compliances of (CR) [Stone & Graves], **53:** 434
reflective heating blanket
intraoperative heat conservation using (CR) [Bourke, Wurm, Rosenberg & Russell], **60:** 151
relief valves
in prevention of barotrauma (CO) [Herr & Liban], **60:** 260
resuscitation
device for filtering mouth-to-mouth resuscitation (CO) [Caccomo], **61:** 638
rubber tubes
endotracheal, laser-induced fire in (CR) [Cozine, Rosenbaum, Askanazi & Rosenbaum], **55:** 583
scavengers
colored identification bands on hoses of (CO) [Luich], **58:** 200
prevention of cross connection of (CO) [Milliken], **57:** 543
for scavenging waste gases in pediatric patients (CO) [Laucks], **59:** 612
silicone fluids
therapeutic arterial embolization with, acute pulmonary embolization during (CO) [deLange & Booij], **60:** 384
sprays
airway foreign body from (CO) [Hard & Nargozian], **61:** 786
as new device for topical anesthesia (CO) [Kinyon], **56:** 154
standards
and colors for intravenous cannulas (CO) [Rendell-Baker], **58:** 194
draft, are not acceptable references (CO) [Hedley-Whyte], **57:** 432
further plea to standardize (CO) [Spielman & Wolf], **55:** 337
stethoscope
contoured
bullae formation from (CR) [Wolf], **54:** 521
stethoscope cuff
esophageal, detachment of (CO) [Gandhi & Dhamee], **58:** 202
suctioning device
syringe as, for continuous pharyngeal suction during surgery (CO) [Greenberg, Ovnat, Peiser, Charuzi & Gesztes], **60:** 82
support pads
intravenous fluid containers as (CO) [Brown & Cadena], **58:** 301
syringes
simple way to transport drugs in (CO) [Bause], **59:** 153
temperature probe
burns, at site of esophageal probe (CR) [Parker], **61:** 93
failure of, a possible cause (CO) [Ben-Zvi], **53:** 527
tourniquets
and massive pulmonary embolism (CO) [Mihic], **60:** 526
T-piece
Washington, defective (CO) [Mantia], **59:** 167
tracheostomy
avoidance of, in acromegaly, use of fiberoptic laryngoscopy in (CR) [Ovassapian, Doka & Romsa], **54:** 429
for emergency transtracheal ventilation (CO) [deLisser & Muravchick], **55:** 606
transducers
and fluid-filled catheter, dynamic responses of, in direct measurements of blood pressure with (LR) [Shinozaki, Deane & Mazuzan], **53:** 498
transesophageal
in assessment of effects of cardiac output on clearance of air emboli from superior vena cava (OA) [Martin, Ashleman & Colley], **60:** 580
tubes
APL, adapter kit to update (CO) [Luich], **58:** 200
endobronchial
for anesthesia in pulmonary lobar torsion (CR) [Moore, Forsythe, Niguidula, McNicholas & Clark], **57:** 129
in direct transthoracic endobronchial intubation (CO) [Stevens], **53:** 83
double-lumen, selective administration of continuous positive airway pressure through, in treatment of unilateral pulmonary insufficiency (CR) [Venus, Pratap & Op'Tholt], **53:** 74
for lung lavage (CO) [Shulman, Brebner, Cain & Sandler], **59:** 607
for one-lung anesthesia in morbidly obese patients (CR) [Brodsky, Wyner, Ehrenwerth, Merrel & Cohn], **57:** 132
pulmonary hemorrhage from pulmonary artery catheterization treated with (CR) [Stein & Lisbon], **55:** 694
for selective endobronchial blocking versus selective intubation (CO) [Dalens, Labbé & Haberer], **57:** 555
endotracheal
armored, another cause of obstruction in (CO) [McTaggart, Shustack, Noseworthy & Johnston], **59:** 164
armored, another cause of obstruction in (CO) [Wiegert], **59:** 164
armored, in maxillofacial surgery (CR) [Beckers], **56:** 309
balloon catheter inserted in, for nasal intubation (CO) [Kawamoto & Shimidzu], **59:** 484
beware of sharp edges in (CO) [Skaredoff & Poppers], **58:** 595
beware of sharp edges in (CO) [Weibel & Mathews], **58:** 595
changing of, safe technique for (CO) [Desai & Fencl], **53:** 267
coating of, in prevention of fire hazard during laser microsurgery (CO) [Kumar & Frost], **54:** 350
cold nasogastric, use of, corrects problems due to pliability (CO) [Teeple & Bowe], **55:** 477
cuff design and lubrication as influence on postoperative sore throat (CR) [Loeser, Kaminsky, Diaz, Stanley & Pace], **58:** 376
double-lumen adaptor for, new improved (CR) [Andersen, Ozaki & Benumof], **56:** 54
double-lumen, for anesthesia in pulmonary lobar torsion (CR) [Moore, Forsythe, Niguidula, McNicholas & Clark], **57:** 129
endorsement of fiberoptic bronchoscope to change (CO) [Watson], **55:** 476
with fixation device constructed from discarded oxygen tubing and umbilical tape (CO) [Klein], **60:** 76
further modification of, for laser microsurgery (CO) [Kalhan & Regan], **53:** 81

ignition of, during laser microsurgery (CO) [Hirshman & Leon], **53:** 177
is not necessary for laryngeal microsurgery (CO) [Talmage], **55:** 332
in management of tracheomegaly (CO) [Ngeow], **57:** 248
in management of tracheomegaly (CO) [Parris], **57:** 249
and mechanism of tracheal constriction by succinylcholine (OA) [Koga, Downes, Leon & Hirshman], **55:** 138
microlaryngeal surgery, complication of use of (CO) [Torres & Reynolds], **53:** 355
new, experiences with, for microlaryngeal surgery (CR) [Torres & Reynolds], **52:** 357
new, fiberoptic, in transillumination for correct tube positioning (CO) [Watson & Clapham], **60:** 253
new, for head and neck surgery (CO) [Shupak], **60:** 621
new, pediatric, incompatibility of, with existing fittings (CO) [Witt & Manawadu], **52:** 280
obstruction of, by lidocaine jelly (CR) [Uehira, Tanaka, Oda & Sato], **55:** 598
obstruction possibly due to structural fault (CO) [Arai & Kuzume], **59:** 480
obstruction, unusual cause of (CO) [Harrington], **61:** 116
oronasotracheal, partial severance of, during le Fort I procedure (CO) [Patel, Cotten & Turndorf], **53:** 357
protection of, during laser microlaryngeal surgery (CO) [Ngeow & Kashima], **55:** 710
reinforced—a hazard alert (CO) [Rendell-Baker], **53:** 268
in thoracoscopy for retrieval of intrathoracic foreign bodies (CO) [Brodsky], **54:** 91
in tracheomegaly (CR) [Parris & Johnson], **56:** 141
use of flexible radiopaque directable catheter in, for difficult tracheal intubations (CO) [Davidson, Reynolds & Stewart], **55:** 605
fiberoptic bronchoscope as guide to placement of (CO) [Patil, Stehling & Zauder], **55:** 484
intraluminal tracheal
obstruction, not so apparent cause of (CO) [Famewo], **58:** 593
intravenous
for identification of epidural space (CO) [Hein & Bhatia], **60:** 79
nasogastric
complication of: pulmonary hemorrhage (CR) [McDanal, Wheeler & Ebert], **59:** 356
insertion of, alternate method for (CO) [Sprague & Carter], **53:** 436
solution for collecting drainage from (CO) [Torretti], **57:** 346
nasotracheal
aid for (CO) [Hansen, Reinhold & Wendt], **60:** 629
Endotrol®, airway obstruction after nasal-tracheal intubation with (CR) [Glinsman & Pavlin], **56:** 229
nasotracheal guide
to facilitate nasotracheal intubation (CO) [Chester], **60:** 522
tracheostomy
tracheostomal stenosis and (CR) [Lebowitz, Geller & Andreweg], **57:** 323
Tuohy needle
for identification of epidural space (CO) [Hein & Bhatia], **60:** 79
ultrasonic Doppler
and stellate ganglion block, for arterial insufficiency of arm in premature infants (CR) [Lagade & Poppers], **61:** 203
ultrasound imaging
in localization of lumbar epidural space (CR) [Cork, Kryc & Vaughan], **52:** 513
uterine displacement device (CO) [Elliott, King & Moore], **57:** 146
valves
Björk-Shiley, acute intermittent obstruction of (CR) [Damen, Wever, Gherli, Hitchcock & Dion], **61:** 613
and inadvertent inspiration of carbon dioxide (CO) [Hornbein & Glauber], **61:** 115
oxygen flush, activated, failed release of (CO) [Bailey], **59:** 480
selector shunt
warning concerning hazards of (CO) [Deas], **56:** 239
and total anesthesia machine failure during administration of anesthetic (CR) [Klein & Ali], **57:** 328
ventilator gas evacuation outlet, defective, insidious PEEP from (CO) [Henzig], **57:** 251
vaporizers
agent-specific
and vaporization of mixed anesthetic liquids (LR) [Bruce & Linde], **60:** 342
can we do without O_2 analyzers? (CO) [Ditchik & Herr], **61:** 629
contamination of, with liquid halothane (CR) [Zimmerman & Lord], **52:** 512
failure of keyed agent-specific filling devices and (CO) [George], **61:** 228
and flow through copper kettle flowmeter (CO) [DesMarteau], **61:** 789
simple in-circuit, for closed-circuit anesthesia (CO) [Garlington & Neff], **54:** 434
in volume ventilation systems for infants (CR) [Bazaral], **54:** 240
ventilators
demand valves of, improperly set resulting in pulmonary barotrauma (CR) [Banner & Boysen], **61:** 86
Dupaco ventilator valve assembly, problems with (CO) [Warren & Gintautas], **53:** 528
error in pipeline gas concentration of, unanticipated consequence of defective check valve (CR) [Bageant, Hoyt & Epstein], **54:** 166
fluidic oscillator
in high-frequency alternating lung ventilation (LR) [Hameroff, Calkins, Waterson & Kanel], **54:** 237
gas evacuation outlet valve, defective, insidious PEEP from (CO) [Henzig], **57:** 251
hazard revealed (CO) [Ciobanu & Meyer], **52:** 186
jet
avoiding complications during use of (CO) [Mette], **52:** 451
malfunction of (CO) [Gaines & Rees], **60:** 260
Narco Air Shields, blistering of epoxy material of (CO) [Stonham & Moss], **58:** 390
in prevention of barotrauma (CO) [Herr & Liban], **60:** 260
standing bellows, advantages of, and low-flow techniques (CO) [Blackstock], **60:** 167
standing bellows and low-flow techniques (CO) [Graham], **58:** 486
testing of
construction of linear resistances for (LR) [Saklad & Weyerhaeuser], **52:** 71
and total anesthesia machine failure during administration of anesthetic (CR) [Henzig], **57:** 251
and ventilatory requirements of critically ill neonates (OA) [Epstein & Hyman], **53:** 379
in volume ventilation systems for infants (CR) [Bazaral], **54:** 240
wrench holder
for Ohio Modulus® anesthesia machine (CO) [Wald & Neidzwski], **58:** 109
Equipment failure, ***See under*** **Complication**
Erikkson, E. (ed.)
Illustrated Handbook in Local Anesthesia (BR), **54:** 176

Erythrocytes, *See under* Blood; Transfusion
Esmarch bandage, *See under* Complications
Esophageal electrode, *See under* Equipment
Esophageal intubation, *See under* Intubation
Esophageal obturator airway (EOA), *See under* Equipment
Esophagitis, *See under* Complications
Esophagus, *See under* Gastrointestinal tract
Ethanol, *See under* Alcohol; Pharmacology
Ether, *See under* Anesthetics, volatile
Ethrane, *See under* Anesthetics, volatile, enflurane
Etidocaine, *See under* Anesthetics, local
Etomidate, *See under* Anesthetics, intravenous; Hypnotics, barbiturates
Eustachian tube, *See under* Ear
Evoked potentials, *See under* Brain; Monitoring; Spinal cord
Evoked responses, *See under* Brain
Excretion, respiratory, *See under* Pharmacokinetics
Exhaust systems, *See under* Equipment; Operating rooms
Exophthalmos, *See under* Eye
Experimental pain, *See under* Pain
Expiratory flow retard, *See under* Ventilation
Explosions, *See also under* Complications
anesthesia machine (CO) [Webb, Warren & Ackroyd], **57:** 343
of colonic gas mixtures
etiologic factors in (CO) [Rumley], **58:** 195
etiologic factors in (CO) [Freund & Radke], **58:** 196
diet
methane gas and, during electrocautery (CR) [Freund & Radke], **55:** 696
discontinuance of use of flammable anesthetics of fear of risk of (CR) [Duncalf], **56:** 217
methane
during electrocautery (CR) [Freund & Radke], **55:** 696
External jugular vein, *See under* Veins
Extracorporeal circulation, *See under* Surgery, cardiovascular
Extubation, *See under* Airway; Anesthetic techniques
Eye
anisocoria
and ipsilateral exophthalmos during enflurane anesthesia (CR) [Klein & Kosanin], **57:** 237
exophthalmos
ipsilateral
and anisocoria, during enflurane anesthesia (CR) [Klein & Kosanin], **57:** 237
intraocular injection of acetylcholine in patient taking metoprolol, bronchospasm following (CR) [Rasch, Holt, Wilson & Smith], **59:** 593
intraocular pressure
controlled study of effect of succinylcholine self-taming on (CR) [Meyers, Singer & Otto], **53:** 72
factors affecting measurement of (CO) [Donlon & Lang], **52:** 99
nitrous oxide increases, after intravitreal sulfur hexafluoride injection (LR) [Wolf, Capuano & Hartung], **59:** 557
and sulfur hexafluoride, interaction of, with nitrous oxide, computer simulation (LR) [Stinson & Donion], **56:** 385
after transurethral prostatic surgery (CR) [Peters, Muir, & Wingard], **55:** 327
pupil
dilation of, in human subjects after intravenous thiopental (CR) [Larson], **54:** 246
retrolental fibroplasia
is bright room light related to? (CO) [Flynn], **61:** 785
is bright room light related to? (CO) [Warshauer], **61:** 785
visual disturbances
symptom of transurethral prostatic resection reaction (CR) [Ovassapian, Joshi & Brunner], **57:** 332
Eye surgery, *See under* Surgery

F

Failsafe equipment, *See under* Equipment
Fasciculations, *See under* Muscle, skeletal; Neuromuscular relaxants
Fasting, *See under* Metabolism
Fatty acids, *See under* Metabolism
Fentanyl, *See under* Analgesics, narcotic; Anesthetic techniques, spinal; Anesthetics, intravenous; Pharmacodynamics
Fetus, *See also under* Anesthesia; Placenta; Pregnancy; Toxicity; Uterus
Apgar score
following epidural anesthesia for cesarean section (OA) [Datta, Corke, Alper, Brown, Ostheimer & Weiss], **52:** 48
neurobehavioral score
following epidural anesthesia for cesarean section (OA) [Datta, Corke, Alper, Brown, Ostheimer & Weiss], **52:** 48
Fiberoptic bronchoscope, *See under* Equipment
Fiberoptic endotracheal intubation, *See under* Intubation
Fiberoptic laryngoscope, *See under* Equipment
Fiberoptics, *See under* Equipment
Fibrillation, *See under* Complications; Heart, arrhythmia(s)
Fibrinolysis, *See under* Blood, coagulation
Fibronectin, *See under* Blood
Fibroplasia, *See under* Complications
Filters, *See under* Equipment
Filtration, glomerular, *See under* Kidney
Finger
in measurement of catheter length (CO) [Horrow], **58:** 198
Fire, *See under* Complications; Electrical systems; Explosions
Flow-directed catheters, *See under* Catheters; Equipment
Flowmeters, *See under* Equipment
Fluid balance
body weight
response in dogs
influence of ventilation on (CO) [Marshall, Berry, Marshall, Geer], **57:** 103
during CVP
after pulmonary microembolization (OA) [Noble & Kay], **61:** 703
distribution
response in dogs
influence of ventilation on (CO) [Marshall, Berry, Marshall, Geer], **57:** 103
intraoperative
management of
influences carbon dioxide production and respiratory quotient [Hagerdal, Caldwell & Gross], **59:** 48
maintenance of
during anesthesia in Fanconi syndrome (CR) [Joel & Rosales], **55:** 455
maintenance requirements
formulas for calculating (CO) [Oh], **53:** 351
mannitol
and effect of positive end-expiratory pressure ventilation (PEEP) on cerebral blood flow and cerebrospinal fluid pressure in goats (OA) [Doblar, Santiago, Kahn & Edelman], **55:** 244
and ICP/CBF effects of volume loading during PEEP administration (CO) [Drummond, Todd, Shapiro], **57:** 62
and ICP/CBF effects of volume loading during PEEP administration (CO) [Doblur], **57:** 63

water intoxication
and intraocular pressure after transurethral prostastic surgery (CR) [Peters, Muir & Wingard], **55:** 327
during percutaneous ultrasonic nephrostolithotomy (CR) [Bennett, Smith & Fuchs], **60:** 245
Flunarizine, ***See under*** **Ions, calcium channel blockade**
Flunitrazepam, ***See under*** **Premedication**
Fluoride, ***See under*** **Biotransformation; Ions; Structure, molecular**
Fluorocarbons, ***See under*** **Chemistry; Pharmacology; Transfusion**
Fluorometabolites, ***See under*** **Biotransformation; Pharmacology; Toxicity**
Fluoroscopy, ***See under*** **Monitoring**
Flurothyl, ***See under*** **Analeptics**
Fluroxene, ***See under*** **Anesthetics, volatile**
Flush valve, ***See under*** **Equipment**
Foramen ovale, ***See under*** **Heart**
Free radicals, ***See under*** **Biotransformation; Metabolism; Toxicity**
Friedrich's ataxia, ***See under*** **Genetics**
Functional residual capacity, ***See under*** **Lung(s)**
Furosemide, ***See under*** **Kidney, diuretics; Pharmacology**

G

Gallamine, ***See under*** **Neuromuscular relaxants**
Gamma-aminobutyric acid, ***See under*** **Brain**
Ganglion, ***See under*** **Anesthetic techniques, regional; Spinal cord; Sympathetic nervous system**
Ganglionic blocking agents, ***See under*** **Sympathetic nervous system**
Ganglionic transmission, ***See under*** **Nerve(s)**
Gangrene, ***See under*** **Complications**
Ganong, W. F.
Review of Medical Physiology (BR), **52:** 197
Gas analyzers, ***See under*** **Equipment**
Gas chromatography, ***See under*** **Measurement techniques**
Gas compression, ***See under*** **Physics**
Gas exchange, ***See under*** **Lung(s); Measurement techniques; Ventilation**
Gas systems, ***See under*** **Equipment**
Gaseous anesthetics, ***See under*** **Anesthetics, gases**
Gases, nonanesthetic. ***See also under*** **Anesthetics, gases; Anesthetics, volatile; Carbon dioxide; Oxygen; Physics**
carbon monoxide
in cigarette smoke, and anesthesia (MI) [Pearce & Jones], **61:** 576
explosive colonic
etiologic factors in determining (CO) [Rumley], **58:** 195
etiologic factors in determining (CO) [Freund & Radke], **58:** 196
nitrogen
in mixing air and oxygen (CO) [DesMarteau & Byles], **58:** 490
sulfur hexafluoride
intravitreal injection of, nitrous oxide increases intraocular pressure after (LR) [Wolf, Capuano & Hartung], **59:** 557
Gastric pH, ***See under*** **Gastrointestinal tract**
Gastric secretions, ***See under*** **Gastrointestinal tract**
Gastrocnemius muscle, ***See under*** **Muscle**
Gastrografin
hypovolemia induced by, intraoperative hypoxia and hypotension caused by (CR) [Maneksha, Betta, Zawin & Poppers], **61:** 454
Gastrointestinal tract
achalasia
of esophagus, upper-airway obstruction and (CR) [Travis, Saini & O'Sullivan], **54:** 87
antacids
cimetidine, and pulmonary aspiration (EV) [Moir], **59:** 81
cimetidine
antacids, and pulmonary aspiration (EV) [Moir], **59:** 81
colon
explosive gas mixtures in, etiologic factors in (CO) [Rumley], **58:** 195
explosive gas mixtures in, etiologic factors in (CO) [Freund & Radke], **58:** 196
intubation, simpler method of nasogastric tube insertion for (CO) [Huang], **58:** 107
ischemic damage to, following profound arterial hypotension (OA) [Dong, Bledsoe, Eng, Heavner, Shaw, Hornbein & Anderson], **58:** 61
esophagus
lower
activity in, may interfere with esophageal pressure measurements (CO) [Gillett, Watson & Langford], **60:** 525
sphincter tone of, in late pregnancy, effect of domperidone on, **52:** 321
gastric pH
and preanesthetic cimetidine and metoclopramide for acid aspiration prophylaxis in elective surgery (OA) [Manchikanti, Marrero & Roush], **61:** 48
and volume
close-response effects of oral cimetidine on, in children (OA) [Goudsouzian, Coté, Liu & Dedrick], **55:** 533
gastric secretions
and prophylaxis against acid aspiration syndrome in obstetric practice (CO) [Gillett, Watson & Langford], **60:** 525
gastric volume
and preanesthetic cimetidine and metoclopramide for acid aspiration prophylaxis in elective surgery (OA) [Manchikanti, Marrero & Roush], **61:** 48
and pH
in assessment of risk factors related to acid aspiration syndrome in pediatric patients (CR) [Coté, Goudsouzian, Liu, Dedrick, Szyfelbein], **56:** 70
nasogastric tube insertion in, alternate method for (CO) [Sprague & Carter], **53:** 436
nausea
prophylaxis in midtrimester abortions? (CO) [Dehring & McDonald], **61:** 223
prophylaxis in midtrimester abortions? (CO) [White], **61:** 224
stomach
acidity of, comparison of cimetidine with antacid for safety and effectiveness in reducing, before elective cesarean section (OA) [Hodgkinson, Glassenberg, Joyce, Coombs, Ostheimer & Gibbs], **59:** 86
and antacid therapy in obstetrics (CO) [Roberts & Shirley], **53:** 83
and buffering capacity of citrate antacids (CO) [Conklin & Ziadlou-Rad], **58:** 391
contents, aspiration of, orally administered antacid therapy during labor in control of, patient acceptance of (CO) [Dewan, Floyd Grant, James, Wheeler, Westmoreland & Rhyne], **52:** 526
and effectiveness of sodium citrate as antacid (CR) [Gibb, Spohr & Schmidt], **57:** 44
emptying of, in labor (CO) [Nimmo], **53:** 263
full, regurgitation associated with, following succinylcholine, nondepolarizing muscle relaxant and (CO) [Smith], **56:** 408
nasogastric tube in, solution for collecting drainage from (CO) [Torretti], **57:** 346
particulate antacids and (CO) [Eyler & Zaccari], **58:** 591
particulate antacids and (CO) [Gibbs & Banner], **58:** 592

pressure
following succinylcholine, recording of (CO) [Collier], **56:** 409
following succinylcholine, recording of (CO) [Muravchick], **56:** 410
succinylcholine-induced fasciculations and, during induction of anesthesia (CR) [Muravchick, Burkett & Gold], **55:** 180
and prophylaxis against acid aspiration syndrome in obstetric practice (CO) [Gillett, Watson & Langford], **60:** 525
pulmonary aspiration of contents of, following antacid therapy (CO) [Bassell & Gatha], **52:** 450
and sodium citrate as antacid for cesarean section (CO) [Stoops, Ravindran & Viegas], **58:** 201
volume in early pregnancy: effect of metoclopramide (OA) [Wyner & Cohen], **57:** 209
vomiting
preanesthetic cimetidine and metoclopramide for prevention of, in elective surgery (OA) [Manchikanti, Marrero & Roush], **61:** 48
prophylaxis in midtrimester abortions? (CO) [Dehring & McDonald], **61:** 223
prophylaxis in midtrimester abortions? (CO) [White], **61:** 224
Gastroscope, *See under* Equipment
Genetic factors
and age-dependent alterations in nitrous oxide requirement of mice (OA) [Koblin, Lurz & Eger], **58:** 428
altering murine resistance to nitrous oxide without alteration in synaptic membrane lipid composition (OA) [Koblin, Dong, Deady & Eger], **52:** 401
glucose-6-phosphate dehydrogenase deficiency, malignant hyperthermia and (CR) [Younker, DeVore & Hartlage], **60:** 601
halothane hepatitis and (CO) [Cousins, Gourlay, Hall & Knights], **56:** 484
in hyperkalemia (CR) [Naidu, Steg, MacEwan], **56:** 226
in mice
influencing potencies of inhaled anesthetics and alcohol in (OA) [Koblin, Deady & Eger], **56:** 18
selectively bred for resistance and susceptibility to nitrous oxide anesthesia, influencing potencies of drugs in (OA) [Koblin, O'Connor, Deady & Eger], **56:** 25
and strain differences in minimum anesthetic concentrations in *Drosophila melanogaster* (OA) [Gamo, Ogaki & Nakashima-Tanaka], **54:** 289
Treacher-Collins syndrome, with sleep apnea: anesthetic considerations (CR) [Roa & Moss], **60:** 71
Genetics
Friedrich's ataxia
and cardiomyopathy, hypotensive anesthesia for patient with (CR) [Bird & Strunin], **60:** 377
Gentamicin, *See under* Antibiotics
George, R. B., Light, R. W., and Matthay, R. A.
Chest Medicine (BR), **61:** 233
Geriatric anesthesia, *See under* Anesthesia
Geriatrics, *See under* Age factors
Germine monoacetate, *See under* Antagonists, neuromuscular relaxants; Neuromuscular transmission
Glomerular filtration, *See under* Kidney
Glottis, *See under* Larynx
Glucagon, *See under* Hormones; Metabolism
Glucathione, *See under* Metabolism
Glucose, *See under* Blood; Brain; Metabolism
Glucose utilization, *See under* Brain; Spinal cord
Glucose-6-phosphate dehydrogenase deficiency, *See under* Genetic factors
Glycogen storage, *See under* Hyperthermia; Metabolism
Glycopyrrolate, *See under* Parasympathetic nervous system; Premedication
Goldman, M. J.
Principles of Clinical Electrocardiography (BR), **52:** 195
Goodman, L. R., Putnam, C. F., and 18 contributions
Intensive Care Radiology: Imaging of the Critically Ill, Second Edition (BR), **60:** 268
Gordon, R. J., Ravin, M. B., and Daicoff, G. R.
Cardiovascular Physiology for Anesthesiologists (BR), **52:** 459
Gorsky, B. H.
Plain, Orgigin and Treatmeant (BR), **57:** 72
Gothard, J. W. W., and Branthwaite, M. A.
Anaesthesia for Thoracic Surgery (BR), **58:** 304
Gravenstein, J. S., Newbower, R. S., Ream, A. K., and Smith, N. T. (eds.)
Essential Noninvasive Monitoring in Anesthesia (BR), **54:** 357
Gray, T. C., Nunn, J. F., and Utting J. E. (eds.)
General Anesthesia (BR), **53:** 530
Greene, N. M.
Key Words in Anesthesiology (BR), **54:** 176
Physiology of Spinal Anesthesia (3rd. ed.) (BR), **56:** 243
Gregory, G. A. (ed.)
Respiratory Failure in the Child (Clinics in Critical Care Medicine, Vol. 3) (BR), **57:** 559
Grodins, F. S., and Yamashiro, S. M.
Respiratory Function of the Lung and Its Control (BR), **53:** 182
Grounding, *See under* Electrical systems; Operating rooms
Growth hormone, *See under* Hormones
Grundy, B. L., and Gravenstein, J. S. (eds.)
The Quality of Care in Anesthesia (BR), **58:** 207
Guanethidine, *See under* Sympathetic nervous system
Guanosine monophosphate, *See under* Metabolism
Guenter, C. A., and Welch, M. H.
Pulmonary Medicine, Second Edition (BR), **58:** 111
Gynecologic anesthesia, *See under* Anesthesia
Gynecologic surgery, *See under* Surgery

H

Hallervorden-Spatz disease, *See under* Muscle
Halothane, *See under* Anesthetic techniques, hypotension, induced; Anesthetics, volatile
Head surgery, *See under* Surgery
Headache, *See under* Complications
Headrest, *See under* Equipment
Healy, G. B., and McGill, T. J. I. (eds.)
Laryngo-Tracheal Problems in the Pediatric Patient (BR), **53:** 359
Hearing
loss
sudden profound, stellate ganglion block for (CR) [Cook, deSanctis, Plaza & Sawyer], **54:** 421
Heart
accessory pathway, fentanyl and droperidol effects on refractoriness of, in Wolff-Parkinson-White syndrome (OA) [Gómez-Arnau, Márquez-Montes & Avello], **58:** 307
action potential
halothane diminishes changes in, induced by hypercarbia and by percarbia (OA) [Stowe, Bosnjak & Kampine], **61:** 245
myocardial slow, halothane depression of (OA) [Lynch, Vogel & Sperelakis], **55:** 360
afterload reduction
effect of sodium nitroprusside on, in canine oleic acid pulmonary edema (OA) [Prewitt & Wood], **55:** 537

anesthetic response
in verapamil infusion during enflurane, isoflurane, or halothane anesthesia in dog (OA) [Kapur, Bloor, Flacke & Olewine], **61:** 156
anesthetics
effects of halothane and enflurane on, during pentobarbital sodium anesthesia (OA) [Mote, Pruett & Gramling], **58:** 53
anti-arrhythmic agents
enflurane effect documented (CO) [Lippmann], **52:** 101
in epinephrine-induced arrhythmias during halothane anesthesia in dogs (OA) [Chapin, Kushins, Munson & Schick], **52:** 23
verapamil
and acute hyperkalemia in halothane-anesthetized dogs (OA) [Nugent, Tinker & Moyer], **60:** 435
during halothane anesthesia in dog, epinephrine-induced arrhythmias and cardiovascular function after (OA) [Kapur & Flacke], **55:** 218
aortic stenosis
cardiovascular effects of metocurine in (CR) [Zaidan & Kaplan], **56:** 395
arrhythmias
bupivacaine-induced, in sheep (OA) [Kotelko, Shnider, Dailey, Brizgys, Levinson, Shapiro, Koike & Rosen], **60:** 10
during coronary ligation, effects of halothane, fentanyl, and no anesthesia, compared (OA) [MacLeod, Augereau & Walker], **58:** 44
epinephrine
-halothane interactions in children (OA) [Karl, Swedlow, Lee & Downes], **58:** 142
-induced, and cardiovascular function after verapamil during halothane anesthesia in dog (OA) [Kapur & Flacke], **55:** 218
-induced, in dogs, potentiation by thiopental by halothane (OA) [Atlee & Matkinson], **57:** 285
-induced, during halothane anesthesia in dogs, lidocaine, bupivacaine, and etidocaine in (OA) [Chapin, Kushins, Munson & Schick], **52:** 23
-induced, identification of receptor mechanism mediating, during halothane (OA) [Maze & Smith], **59:** 322
in interaction with halothane, in children versus adults (CO) [Karl], **60:** 77
in interaction with halothane, in children versus adults (CO) [Pepple], **60:** 76
halothane-epinephrine, echocardiography in determination of site of origin of (OA) [Smith & Dresel], **57:** 98
and influence of succinylcholine and succinylmonocholine on sinoatrial node (OV) [Yasuda, Hirano, Amaha, Fudeta & Obara], **57:** 289
misdiagnosis of, due to ECG failure (CO) [Shapiro, Jedeikin & Hoffman], **60:** 166
occlusion/reperfusion, antifibrillatory effects of volatile anesthetics in (EV) [Lynch], **61:** 644
occlusion/reperfusion, antifibrillatory effects of volatile anesthetics in (OA) [Kroll & Knight], **61:** 657
pancuronium
d-tubocurarine, and epinephrine induced, during halothane anesthesia (OA) [Schick, Chapin, Munson & Kushins], **52:** 207
and plasma levels of epinephrine during halothane, enflurane and pentobarbital anesthesia in dog (OA) [Sumikawa, Ishizaka & Suzaki], **58:** 322
and preoperative management of atrial fibrillation (CO) [Royster], **59:** 602
prevention, intravenous verapamil in, in mitral valve disease (CR) [Kopman], **58:** 374
in Rubenstein-Taybi syndrome, succinylcholine in (CO) [Stirt], **57:** 429
thiobarbiturates induce
in dogs (CO) [Dresel & Smith], **58:** 395
in dogs (CO) [Seeler & Thurman], **58:** 394
treatment
amiodarone in, complications associated with (CR) [Gallagher, Lieberman, Meranze, Spielman & Ellison], **55:** 186
ventricular
associated with pulmonary artery catheterization, does prophylactic lidocaine, control? (CR) [Salmenperä, Peltola & Rosenberg], **56:** 210
following right radical neck dissection (CR) [Otteni, Pottecher, Bonner, Flesch & Diebolt], **59:** 358
atria
in comparison of neuromuscular blocking and vagolytic effects of ORG NC45 and pancuronium (OA) [Lee Son, Waud & Waud], **55:** 12
pressure in
and renal effects of sodium nitroprusside in postoperative cardiac surgical patients (OA) [Maseda, Hilberman, Derby, Spencer, Stinson & Myers], **54:** 284
atrial fibrillation
preoperative management of (CO) [Royster], **59:** 602
atrioventricular block
effects of bupivacaine and lidocaine on, in isolated rat heart: modification by hyperkalemia (OA) [Komai & Rusy], **55:** 281
second-degree, after methyl methacrylate (CR) [Brown & Parmley], **56:** 391
atrioventricular conduction
effects of bupivacaine and lidocaine on, in isolated rat heart: modification by hyperkalemia (OA) [Komai & Rusy], **55:** 281
atrioventricular node
effects of bupivacaine and lidocaine on, in isolated rat heart: modification by hyperkalemia (OA) [Komai & Rusy], **55:** 281
blood flow
during halothane anesthesia in aged rat (OS) [Hoffman, Miletich, Albrecht, Seals & Jozefiak], **56:** 444
in halothane anesthesia during chronic anemia (OA) [Barrera, Miletich, Albrecht & Hoffman], **61:** 36
during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Steen & Milde], **58:** 18
myocardial
canine, during acute sympathectomy by epidural anesthesia (OA) [Klassen, Bramwell, Bromage & Zborowska-Sluis], **52:** 8
in canine model of acute coronary artery stenosis: effects of deliberate hypotension (OA) [Hickey, Verrier, Baer, Vlahakes, Fein & Hoffman], **59:** 226
in dogs anesthetized with halothane (OA) [Verrier, Edelist, Sonsigny, Robinson & Hoffman], **53:** 445
effect of halothane anesthesia on, in dogs following coronary artery occlusion (OA) [Davis, DeBoer, Rude, Lowenstein & Maroko], **59:** 402
effects of anesthesia and surgery on, in ischemic heart disease (EV) [Lowenstein, Hill, Rajagopalan & Schneider], **56:** 81
effects of digoxin on, in patients following coronary artery bypass surgery (OA) [Sethna, Moffitt, Gray, Bussell, Raymond, Conklin, Shell & Matloff], **56:** 356
effects of halothane on (CO) [Smith], **55:** 479

effects of isoflurane, halothane and enflurane on, compared (OA) [Merin], **55:** 398
in ischemic heart, is anesthesia beneficial for? (EV) [Merin], **53:** 439
in isoflurane administration in patients with coronary artery disease (OA) [Reiz, Bålfors, Sørensen, Ariola, Friedman & Truedsson], **59:** 91
and oxygen consumption during high-dose fentanyl anesthesia in coronary artery disease (OA) [Sontag, Larsen, Hilfiker, Kettler & Brockschnieder], **56:** 417
in response to ischemia in swine during halothane and fentanyl anesthesia (OA) [Merin, Verdouw & de Jong], **56:** 84
sympathetic influences on, and evolving concepts of driving pressure, resistance, and transmural flow regulation (EV) [Klocke, Ellis & Orlick], **52:** 1

regional distribution
and systemic, in unanesthetized swine and swine anesthetized with halothane + nitrous oxide, halothane or enflurane (OA) [Tranquilli, Manohar, Parks, Thurmon, Theodorakis, Benson & Chasnov], **56:** 369
and systemic hemodynamics and oxygen utilization in dog, effects of sodium nitroprusside on (OA) [Fan, Kim, Simchou, Chen, Schuessler & Chien], **53:** 113

blood pressure
in response to airway stimulation and cervical epidural blockade (OA) [Dohi, Nishikawa, Ujike & Mayumi], **57:** 359

calcium
and halothane depression of myocardial slow action potentials (OA) [Lynch, Vogel & Sperelakis], **55:** 360

calcium entry blockers
and preoperative nifedipin and anesthesia in coronary heart disease (CO) [Skarvan], **59:** 362

cardiac arrest
and brain resuscitation (EV) [Shapiro], **60:** 85
and cardiotoxicity of local anesthetics (EV) [Marx], **60:** 3
and thiopental treatment after global brain ischemia in pigtailed monkeys (OA) [Gisvold, Safar, Hendrickx, Rao, Moossy & Alexander], **60:** 88

cardiac conduction
effects of Ca^{++} entry blockers on (EV) [Reves], **61:** 3
effects of verapamil, nifedipine, and diltiazem on, during halothane anesthesia in swine (OA) [Kates, Zaggy, Norfleet & Heath], **61:** 10

cardiac massage

cardiopulmonary resuscitation
following reactions to intravascular contrast media (RA) [Goldberg], **60:** 46
external, in humans, transesophageal echocardiography during (CO) [Uenishi, Sugimoto, Sawada, Terai, Yoshioka & Sugimoto], **60:** 618

cardiac output
in blood flow alteration induced by saralasin or sodium nitroprusside in rats (OA) [Miller & Delaney], **54:** 199
in canine low-pressure pulmonary edema, effects of hydralazine on (CO) [Prewitt & Ghignone], **60:** 519
in canine low-pressure pulmonary edema, effects of hydralazine on (CO) [Prough & Johnston], **60:** 518
comparison of effects of *d*-tubocurarine, pancuronium, and vecuronium on (OA) [Saxena, Dhasmana & Prakash], **59:** 102
compromised, dopamine infusion in (EV) [Miller], **61:** 487
and diuretic properties of dopamine in patients after open-heart operation (OA) [Hilberman, Maseda, Stinson, Derby, Spencer, Miller, Oyer & Myers], **61:** 489

effect of
on arterial oxygenation (MI) [Cheney & Colley], **52:** 496
on clearance of air emboli from superior vena cava (OA) [Martin, Ashleman & Colley], **60:** 580
effect of sodium nitroprusside on, in canine oleic acid pulmonary edema (OA) [Prewitt & Wood], **55:** 537
effects of hydralazine on, in canine low-pressure pulmonary edema (OA) [Ghignone, Girling & Prewitt], **59:** 187
effects of isoflurane, halothane and enflurane on, compared (OA) [Merin], **55:** 398
effects of prolonged hypothermia and rewarming on (OA) [Steen, Milde & Michenfelder], **52:** 224
in halothane anesthesia during chronic anemia (OA) [Barrera, Miletich, Albrecht & Hoffman], **61:** 36
in hypoxemic respiratory failure, effect of positive end-expiratory pressure on (OA) [Prewitt, Oppenheimer, Sutherland & Wood], **55:** 409
and influence of mixed venous oxygen tension ($P\bar{v}_{O_2}$) on blood flow to atelectatic lung (OA) [Domino, Wetstein, Glasser, Lindgren, Marshall, Harken & Marshall], **59:** 428
in ketamine or thiopental induction in hypovolemia swine (OA) [Weiskopf, Bogetz, Roizen & Reid], **60:** 214
and left ventricular performance in humans, effects of droperidol on (OA) [Marty, Nitenberg, Blanchet, Laffay, Mazze & Desmonts], **57:** 22
and mean airway pressure (CO) [Munryuki & Konishi], **60:** 75
and mean airway pressure (CO) [Otto, Calkins, Waterson & Hameroff], **60:** 74

measurement of
using radioactively labelled microspheres during anesthesia with halothane, enflurane, or ketamine (OA) [Miller, Kistner & Epstein], **52:** 296
and preventive insulin administration for myocardial protection in cardiac surgery (OA) [Haider, Eckersberger & Wolner], **60:** 422
reduced, by CPPV after pulmonary microembolization (OA) [Noble & Kay], **61:** 703
and regional blood flow distribution, morphine effects on, in conscious dogs (OA) [Priano & Vatner], **55:** 236
and renal effects of sodium nitroprusside in postoperative cardiac surgical patients (OA) [Maseda, Hilberman, Derby, Spencer, Stinson & Myers], **54:** 284
in response to ischemia in swine during halothane and fentanyl anesthesia (OA) [Merin, Verdouw & de Jong], **56:** 84
in response to mechanical ventilation with PEEP (OA) [Brown, Bazaral, Nath & Delaney], **54:** 409
thermodilution methods of measuring, and aortic pulse-wave contour analysis, comparison of, during anesthesia in dog (OA) [English, Hodges, Sentker, Johansen & Stanley], **52:** 56

thermodilution determination
atrial fibrillation induced by right atrial injection of cold fluids during (CR) [Todd], **59:** 253
in unanesthetized swine and swine anesthetized with halothane + nitrous oxide, halothane, or enflurane (OA) [Tranquilli, Manohar, Parks, Thurmon, Theodorakis, Benson & Chasnov], **56:** 369
vecuronium and pancuronium influence on, in patients undergoing coronary artery bypass grafting (OA) [Morris, Cahalan, Miller, Wilkinson, Quasha & Robinson], **58:** 438

cardiopulmonary bypass
activated coagulation time method for control of heparin is reliable during (OA) [Cohen], **60:** 121

cardiotoxicity
in bupivacaine, in pregnant patient with mitral valve prolapse (CO) [Conklin & Ziadlou-Rad], **58:** 596

cardiovascular reflexes
effects of isoflurane on (OA) [Seagard, Elegbe, Hopp, Bosnjak, von Colditz, Kalbfleisch & Kampine], **59:** 511
elicited by acute coronary artery occlusion, effect of halothane on, in dog (OA) [Bachhumber, Seagard, Bosnjak & Kampine], **54:** 481
halothane and (OA) [Seagard, Hopp, Donegan, Kalbfleisch & Kampine], **57:** 191
cardiovascular system
complications
during anesthesia in chronic spinal cord injured patients (MI) [Schonwald, Fish & Perkash], **55:** 550
cardioversion
elective, thiopental-lidocaine combination for (CO) [White], **60:** 511
compliance
ventricular
as predictor of myocardial ischemia during halothane anesthesia for coronary-artery revascularization (OA) [Lieberman, Orkin, Jobes & Schwartz], **59:** 36
complications
and cardiac risk index (CO) [Jeffrey, Kunsman, Cullen & Brewster], **60:** 608
and cardiac risk index (CO) [Pace], **60:** 607
congenital abnormalities
unexpected location of central venous catheter placement (CO) [Fischler, Tritz, Vurpillat, Rongier & Vourc'h], **60:** 616
congenital defects
and effect of paralysis on oxygen consumption in normoxic children after cardiac surgery (OA) [Palmisano, Fisher, Willis, Gregory & Ebert], **61:** 518
patent foramen ovale
intracardiac shunt through, and hypoxemia following cardiopulmonary bypass (OA) [Byrick, Kolton, Hart & Forbath], **53:** 172
pediatric pulmonary artery catheters in, migration of (CR) [Moore, McNicholas, Gallagher & Niguidula], **58:** 102
percutaneous central venous cannulation, hazard of (CO) [Watson & Simpson], **60:** 524
single ventricle
intrathecal morphine in parturient with (CR) [Ahmad, Hawes, Dooley, Faure & Brunner], **54:** 515
contractility
diazepam anesthesia and (CO) [Kissin], **53:** 78
and effects of enflurane on left ventricular function in intact and isolated canine heart (OC) [Zimpfer, Gilly, Krosi, Schlag & Steinbereithner], **58:** 159
effects of halothane and enflurane on, during pentobarbital sodium anesthesia (OA) [Mote, Pruett & Gramling], **58:** 53
effects of isoflurane, halothane and enflurane on, compared (OA) [Merin], **55:** 398
effects of volatile anesthetics on, assessed by NADH fluorometry (LR) [Kissin, Aultman & Smith], **59:** 447
in halothane depression of myocardial slow action potentials (OA) [Lynch, Vogel & Sperelakis], **55:** 360
and left ventricular end-diastolic pressure (LVEDP) as index for nitrous oxide use during coronary artery surgery (CR) [Balasaraswathi, Kumar, Rao & El-Etr], **55:** 704
and left ventricular performance in humans, effects of droperidol on (OA) [Marty, Nitenberg, Blanchet, Laffay, Mazze & Desmonts], **57:** 22
midazolam and (CO) [Reves, Kissin & Fournier], **60:** 517
in response to mechanical ventilation with PEEP (OA) [Brown, Bazaral, Nath & Delaney], **54:** 409
and systemic hemodynamics and oxygen utilization in dog, effects of sodium nitroprusside on (OA) [Fan, Kim, Simchou, Chen, Schuessler & Chien], **53:** 113
contraction
effects of enflurane on, in functionally skinned myocardial fibers from rabbits (OA) [Su & Kerrick], **52:** 385
coronary arteries
bypass graft, ECG changes with papaverine injection into (CO) [Mahomed, Moorthy, Brown & King], **61:** 350
coronary artery disease
aortocoronary bypass operation in, hemodynamic changes during fentanyl-oxygen anesthesia for (OA) [Waller, Hug, Nagle & Craver], **55:** 212
to catheterize or not to catheterize in—that is the question (EV) [Lowenstein & Teplick], **53:** 361
is anesthesia beneficial for? II (EV) [Merin], **55:** 341
monitoring pulmonary arterial pressure in (OA) [Mangano], **53:** 364
regional ischemic ventricular dysfunction in myocardium in, with increasing halothane concentration in dog (OA) [Lowenstein, Foëx, Francis, Davies, Yusuf & Ryder], **55:** 349
coronary artery occlusive disease
propranolol postoperative maintenance by continuous IV infusion in (CR) [Villers, Pinaud, Bourin, Frison, Souron & Nicolas], **60:** 594
coronary artery spasm
after coronary artery bypass surgery (CR) [Skarvan, Graedel, Hasse, Stulz & Pfisterer], **61:** 323
coronary disease
cardiovascular effects of nalbuphine in patients with (OA) [Lake, Duckworth, DiFazio, Durbin & Magruder], **57:** 498
coronary occlusion
a complex regional disease (EV) [Tinker], **54:** 449
acute, canine model of: effects of deliberate hypotension (OA) [Hickey, Verrier, Baer, Vlahakes, Fein & Hoffman], **59:** 226
in canine, during acute sympathectomy by epidural anesthesia (OA) [Klassen, Bramwell, Bromage & Zborowska-Sluis], **52:** 8
during coronary ligation, effects of halothane, fentanyl, and no anesthesia on, compared (OA) [MacLeod, Augereau & Walker], **58:** 44
development of myocardial ischemia in, effects of anesthesia on (EV) [Lowenstein, Hill, Rajagopalan & Schneider], **56:** 81
effect of halothane anesthesia on, in dogs following coronary artery occlusion (OA) [Davis, DeBoer, Rude, Lowenstein & Maroko], **59:** 402
effects of digoxin on, following coronary artery bypass surgery (OA) [Sethna, Moffitt, Gray, Bussell, Raymond, Conklin, Shell & Matloff], **56:** 356
halothane anesthesia during, effect of, in dog (OA) [Bachhuber, Seagard, Bosnjak & Kampine], **54:** 481
isoflurane as powerful vasodilator in patients with (OA) [Reiz, Bålfors, Sørensen, Ariola, Friedman & Truedsson], **59:** 91
as predictor of myocardial ischemia during halothane anesthesia for coronary-artery revascularization (OA) [Lieberman, Orkin, Jobes & Schwartz], **59:** 36
reinfarction following anesthesia in patients with (OA) [Rao, Jacobs & El-Etr], **59:** 499
in response to ischemia in swine during halothane and fentanyl anesthesia (OA) [Merin, Verdouw & de Jong], **56:** 84
and sympathetic influences on coronary perfusion and evolving concepts of driving pressure, resistance, and transmural flow regulation (EV) [Klocke, Ellis & Orlick], **52:** 1
digitalis
dysrhythmias following muscle relaxant administration in patients receiving (CR) [Bartolone & Rao], **58:** 567

effects of
on myocardial oxygen supply and demand following coronary artery bypass surgery (OS) [Sethna, Moffitt, Gray, Bussell, Raymond, Conklin, Shell & Matloff], **56:** 356
dopamine
infusion
increase of shunting caused by, positive end-expiratory pressure (PEEP) ventilation suppresses (CO) [Lemaire, Regnier, Simoneau & Harf], **52:** 376
dysrhythmias
complex ventricular
enflurane suppression of (CR) [Smith, Kroll & Breckenridge], **56:** 148
following muscle relaxant administration in patients receiving digitalis (CR) [Bartolone & Rao], **58:** 567
treatment with enflurane (CR) [Smith, Kroll & Breckenridge], **56:** 148
echocardiography
in determination of site of origin of halothane-epinephrine arrhythmia (OA) [Smith & Dresel], **57:** 98
effects of pacing on (RA) [Zaiden], **60:** 319
two-dimensional transesophageal, in analysis of anaphylactic reaction in humans (CR) [Baeupre, Roizen, Cahalan, Alpert, Cassorla & Schiller], **60:** 482
Eisenmenger's syndrome
Swan-Ganz catheter related complication in patient with (CR) [Devitt, Noble & Byrick], **57:** 335
electrocardiography
in canine model of acute coronary artery stenosis: effects of deliberate hypotension (OA) [Hickey, Verrier, Baer, Vlahakes, Fein & Hoffman], **59:** 226
electrodes in, severe skin damage from (CO) [Chandra], **56:** 157
intravascular
J wire electrode for (CR) [Westheimer], **56:** 478
wire guide as lead in, right atrial catheter placement (CR) [Westheimer], **56:** 478
in isoflurane administration in patients with coronary artery disease (OA) [Reiz, Bålfors, Sørensen, Ariola, Friedman & Truedsson], **59:** 91
precordial lead (V_5), capability of, by simple modification of EKG monitor leads (CO) [Nagel & Weeks], **53:** 179
Q-T intervals
ionized calcium concentration and (CO) [Howland, Carlon, Scheidegger & Drop], **52:** 452
in study of intravenous nitroglycerin and intraoperative myocardial ischemia during fentanyl-pancuronium anesthesia (OA) [Thomson, Mutch & Culligan], **61:** 385
in study of potentiation by thiopental of halothane, epinephrine-induced in dogs (OA) [Atlee & Matkinson], **57:** 285
temperature-related T-wave changes in, during thoracotomy (CR) [Westover & Saidman], **59:** 474
V-lead adapter in (CR) [Sass], **52:** 78
endocardium
canine
during acute sympathectomy by epidural anesthesia (OA) [Klassen, Bramwell, Bromage & Zborowska-Sluis], **52:** 8
and sympathetic influences on coronary perfusion and evolving concepts of driving pressure, resistance, and transmural flow regulation (EV) [Klocke, Ellis & Orlick], **52:** 1
fibrillation
and effects of volatile anesthetics in acute occlusion/reperfusion arrhythmias (EV) [Lynch], **61:** 644
and effects of volatile anesthetics in acute occlusion/reperfusion arrhythmias (OA) [Kroll & Knight], **61:** 657
foramen ovale
and paradox of paradoxic air embolism (CO) [Albin], **61:** 222
heart rate
in response to airway stimulation and cervical epidural blockade (OA) [Dohi, Nishikawa, Ujike & Mayumi], **57:** 359
hemodynamic response to surgery
influence of propranolol plasma levels on (OA) [Sill, Nugent, Moyer, Torres, Schaff & Tinker], **60:** 455
herniation
management of, after intrapericardial pneumonectomy (CR) [Cassorla & Katz], **60:** 362
hypertrophic obstructive cardiomyopathy
intraoperative diagnosis of (CR) [Lanier & Prough], **60:** 61
hypotension
secondary to air trapping treated with expiratory flow retard (CR) [Weng, Smith, Graybar & Kirby], **60:** 350
idiopathic hypertrophic subaortic stenosis
adverse effects of spinal anesthesia in patient with (CR) [Loubser, Suh & Cohen], **60:** 228
spinal anesthesia in (CO) [Larson], **61:** 229
as unusual cause of hypotension after coronary artery bypass grafting (CR) [Pearson & Reves], **60:** 592
infarction
effect of halothane anesthesia on, in dogs following coronary artery occlusion (OA) [Davis, DeBoer, Rude, Lowenstein & Maroko], **59:** 402
insulin
and preventive insulin administration for myocardial protection in cardiac surgery (OA) [Haider, Eckersberger & Wolner], **60:** 422
intracoronary streptokinase
emergency coronary artery bypass surgery following (CR) [Goldberg, Colonna-Romano & Babins], **61:** 601
ischemia
and ECG changes with papaverine injection into coronary artery bypass grafts (CO) [Mahomed, Moorthy, Brown & King], **61:** 350
effect of halothane anesthesia on, in dogs following coronary artery occlusion (OA) [Davis, DeBoer, Rude, Lowenstein & Maroko], **59:** 402
and effects of volatile anesthetics in acute occlusion/reperfusion arrhythmias (EV) [Lynch], **61:** 644
and effects of volatile anesthetics in acute occlusion/reperfusion arrhythmias (OA) [Kroll & Knight], **61:** 657
hemodynamic predictors of, during halothane anesthesia for coronary-artery revascularization (OA) [Lieberman, Orkin, Jobes & Schwartz], **59:** 36
is anesthesia beneficial for? (EV) [Merin], **53:** 439
in isoflurane administration in patients with coronary artery disease (OA) [Reiz, Bålfors, Sørensen, Ariola, Friedman & Truedsson], **59:** 91
and preventive insulin administration for myocardial protection in cardiac surgery (OA) [Haider, Eckersberger & Wolner], **60:** 422
thoracic epidural anesthesia in, clinical implications of effects of, on endocardial/epicardial flow distribution ratio are not justified (CO) [Merin], **53:** 349
ischemic damage to, following profound arterial hypotension (OA) [Dong, Bledsoe, Eng, Heavner, Shaw, Hornbein & Anderson], **58:** 61
lactate production
during high-dose fentanyl anesthesia in coronary artery disease (OA) [Sonntag, Larsen, Hilfiker, Kettler & Brockschnieder], **56:** 417

metabolism
and additive effects of pentobarbital and halothane (OA) [Rannels, Roake & Watkins], **57:** 87
during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Steen & Milde], **58:** 18
effects of digoxin on, following coronary artery bypass surgery (OA) [Sethna, Moffitt, Gray, Bussell, Raymond, Conklin, Shell & Matloff], **56:** 356
effects of isoflurane, halothane and enflurane on, compared (OA) [Merin], **55:** 398
in isoflurane administration in patients with coronary artery disease (OA) [Reiz, Bålfors, Sørensen, Ariola, Friedman & Truedsson], **59:** 91
mitral valve
prolapse
in pregnant patient, bupivacaine cardiotoxicity in (CO) [Conklin & Ziadlou-Rad], **58:** 596
mitral valve disease
intravenous verapamil to relieve pulmonary congestion in (CR) [Kopman], **58:** 374
tachycardia and (CO) [Jackson], **60:** 389
tachycardia and (CO) [Kopman], **60:** 390
myocardial depression, by halothane (OA) [Lynch, Vogel & Sperelakis], **55:** 360
myocardial function
anesthetics
in canine model of acute coronary artery stenosis: effects of deliberate hypotension (OA) [Hickey, Verrier, Baer, Vlahakes, Fein & Hoffman], **59:** 226
effects of isoflurane, halothane and enflurane on, compared (OA) [Merin], **55:** 398
in interaction of verapamil and isoflurane (OA) [Kates, Kaplan, Guyton, Dorsey, Hug & Hatcher], **59:** 132
volatile, treatment of stress-induced increases in pulmonary capillary wedge pressure and (CR) [Roizen, Hamilton & Sohn], **55:** 446
effects of Ca^{++} entry blockers on (EV) [Reves], **61:** 3
effects of halothane and enflurane on, during pentobarbital sodium anesthesia (OA) [Mote, Pruett & Gramling], **58:** 53
effects of verapamil, nifedipine, and diltiazem on, during halothane anesthesia in swine (OA) [Kates, Zaggy, Norfleet & Heath], **61:** 10
epinephrine-induced arrhythmias and, after verapamil during halothane anesthesia in dog (OA) [Kapur & Flacke], **55:** 218
during flow-guided pulmonary-artery catheterization (EV) [Lowenstein & Teplick], **53:** 361
in high-dose methohexital anesthesia in humans (OA) [Todd, Drummond & Sang], **61:** 495
in hypoxemic respiratory failure, effect of positive end-expiratory pressure on (OA) [Prewitt, Oppenheimer, Sutherland & Wood], **55:** 499
importance of, in determining effects of enflurane on left ventricular function (OA) [Zimpfer, Gilly, Krosi, Schlag & Steinbereithner], **58:** 159
in monitoring of pulmonary arterial pressure in coronary-artery disease (OA) [Mangano], **53:** 364
as predictor of myocardial ischemia during halothane anesthesia for coronary-artery revascularization (OA) [Liebeman, Orkin, Jobes & Schwartz], **59:** 36
and respiratory function
in scoliosis, and principles of anesthetic management (RA) [Kafer], **52:** 339
in response to diazepam (CR) [Dauchot, Staub, Berzina, van Heeckeren, Mackay & Sirvaitis], **60:** 499
in response to ischemia in swine during halothane and fentanyl anesthesia (OA) [Merin, Verdouw & de Jong], **56:** 84
in shock (SM), **52:** 379
slow channel inhibitors, anesthetics and (EV) [Merin], **55:** 198
verapamil and, in acute hyperkalemia in halothane-anesthetized dogs (OA) [Nugent, Tinker & Moyer], **60:** 435
in verapamil infusion during enflurane, isoflurane, or halothane anesthesia in dog (OA) [Kapur, Bloor, Flacke & Olewine], **61:** 156
myocardial infarction
and differences in reinfarction rates, due to differences in populations? (CO) [Rooke, Peterson, Faulhaber & Buffington], **61:** 213
and differences in reinfarction rates, due to differences in populations? [Rao], **61:** 214
perioperative reinfarction following, monitoring in prevention of (EV) [Lowenstein, Yusuf, Teplick & Peto], **59:** 493
postoperative, guidelines for randomized trials to determine incidence of (CO) [Morris], **61:** 213
reinfarction following anesthesia in patients with (OA) [Rao, Jacobs & El-Etr], **59:** 499
myocardial ischemia
intraoperative, prevention of, during noncardiac surgery with intravenous nitroglycerin (CR) [Coriat, Daloz, Bousseau, Fusciardi, Echter & Viars], **61:** 193
periinduction, noninvasive detection of, by cardiokymography in humans (CR) [Bellows, Bode, Levy, Foëx & Lowenstein], **60:** 155
nitroglycerin
intravenous, prevention of intraoperative myocardial ischemia during noncardiac surgery with (CR) [Coriat, Daloz, Bousseau, Fusciardi, Echter & Viars], **61:** 193
oxygen consumption
during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Steen & Milde], **58:** 18
effects of digoxin on, following coronary artery bypass surgery (OA) [Sethna, Moffitt, Gray, Bussell, Raymond, Conklin, Shell & Matloff], **56:** 356
effects of isoflurane, halothane and enflurane on, compared (OA) [Merin], **55:** 398
during high-dose fentanyl anesthesia in coronary artery disease (OA) [Sonntag, Larsen, Hilfiker, Kettler & Brockschnieder], **56:** 417
as predictor of myocardial ischemia during halothane anesthesia for coronary-artery revascularization (OA) [Lieberman, Orkin, Jobes & Schwartz], **59:** 36
in response to ischemia swine during halothane and fentanyl anesthesia (OA) [Merin, Verdouw & de Jong], **56:** 84
and systemic hemodynamics and oxygen utilization in dog, effects of sodium nitroprusside on (OA) [Fan, Kim, Simchou, Chen, Schuessler & Chien], **53:** 113
pacemaker
artificial
malfunction associated with positive-pressure ventilation (CR) [Thiagarajah, Azar, Agres & Lear], **58:** 565
and pacemaker syndrome during anesthesia (CR) [Forand & Schweiss], **60:** 588
temporary transvenous, intraoperative management of carotid sinus syndrome facilitated by (CR) [Brown & Watson], **56:** 151
papillary muscle
functionally skinned fibers of, from rabbits, effects of enflurane on (OA) [Su & Kerrick], **52:** 385

patent foramen ovale
opening of, postoperative hypoxemia due to, confirmed during mechanical ventilation (CR) [Lemaire, Richalet, Carlet, Brun-Buisson & MacLean], **57:** 233
and sitting position (CO) [Fischler, Vourc'h, Dubourg & Bourdarias], **60:** 83
protection
and preventive insulin administration for myocardial protection in cardiac surgery (OA) [Haider, Eckersberger & Wolner], **60:** 422
pulse rate
and anesthetic potency for enflurane (CO) [Kissin & Morgan], **58:** 109
assessment of
during fentanyl-oxygen induction of anesthesia, and prevention of regidity (CR) [Hill, Nahrwold, de Rosayro, Knight, Jones & Bolles], **55:** 452
and blood pressure changes after ORG NC45 (vecuronium) and pancuronium during halothane and enflurane anesthesia (CR) [Gregoretti, Sohn & Sia], **56:** 392
and clinical pharmacology of edrophonium in infants and children (OA) [Fisher, Cronnelly, Sharma & Miller], **61:** 428
in comparison of neuromuscular blocking and vagolytic effects of ORG NC45 and pancuronium (OA) [Lee Son, Waud & Waud], **55:** 12
and ED_{50} of alfentanil for induction of anesthesia in unpremedicated young adults (OA) [McDonnell, Bartkowski & Williams], **60:** 136
effects of bupivacaine and lidocaine on, in isolated rat heart: modification by hyperkalemia (OA) [Komai & Rusy], **55:** 281
fetal
variability intra- and postoperatively, effects of nitrous oxide and fentanyl anesthesia on (CR) [Johnson & Colley], **52:** 429
intraoperative
in patients undergoing mixed-cell intraportal autotransplantation of pancreatic tissue (CR) [Torres, Traverso & Sohn], **53:** 427
lidocaine before endotracheal intubation influencing, route of administration and (CR) [Hamill, Bedford, Weaver & Colohan], **55:** 578
as predictor of myocardial ischemia during halothane anesthesia for coronary-artery revascularization (OA) [Lieberman, Orkin, Jobes & Schwartz], **59:** 36
as result of metocurine in patients with aortic stenosis (CR) [Zaidlan & Kaplan], **56:** 395
rate
response to nociceptive stimulation as index of anesthetic potency for enflurane (CO) [Kissin & Morgan], **58:** 109
rate response
to somatic nerve stimulation in dogs, effect of halothane on (OA) [Kissin & Greene], **61:** 708
rate-pressure product
it it misleading guide (CO) [Kissin, Reves & Mardis], **52:** 373
redox state
effects of volatile anesthetics on, assessed by NADH fluorometry (LR) [Kissin, Aultman & Smith], **59:** 447
refractory period
halothane diminishes changes in, induced by hypocarbia and hypercarbia (OA) [Stowe, Bosnjak & Kampine], **61:** 245
reinfarction
perioperative, monitoring in prevention of (EV) [Lowenstein, Yusuf, Teplick & Peto], **59:** 493
right ventricular failure
acute increase in, in dogs, volume expansion versus norepinephrine in treatment of low cardiac output complicating (OA) [Ghignone, Girling & Prewitt], **60:** 132
shunt
and paradox of paradoxic air embolism (CO) [Albin], **61:** 222
sinoatrial node
chronotropic effects of nalbuphine in patients with (OA) [Lake, Duckworth, DiFazio, Durbin & Magruder], **57:** 498
effects of halothane, enflurane, and isoflurane on (OA) [Bosnjak & Kampine], **58:** 314
systolic murmur
observation of, in intraoperative diagnosis of hypertrophic obstructive cardiomyopathy (CR) [Lanier & Prough], **60:** 61
systolic time intervals
in response to diazepam (CR) [Dauchot, Staub, Berzina, van Heeckeren, Mackay & Sirvaitis], **60:** 499
tachycardia
and beta-adrenergic effect of pancuronium bromide (CO) [Pinaud & Souron], **60:** 512
and mitral valve disease (CO) [Jackson], **60:** 389
and mitral valve disease (CO) [Kopman], **60:** 390
termination of, intravenous verapamil in, in mitral valve disease (CR) [Kopman], **58:** 374
tamponade
hypotension secondary to air trapping and, treated with expiratory flow retard (CR) [Weng, Smith, Graybar & Kirby], **60:** 350
transesophageal pacemaker
for bradycardia (CR) [Backofen, Schauble & Rogers], **61:** 777
T-waves
enlarged, on electrocardiogram during multiple monitored electroconvulsive therapy (CR) [Graybar, Levy, Phillips, Youngberg & Smith], **59:** 467
valvular disease
cardiovascular effects of nalbuphine in patients with (OA) [Lake, Duckworth, DiFazio, Durbin & Magruder], **57:** 498
vascular pressures
acute increase in, in dogs, volume expansion versus norepinephrine in treatment of low cardiac output complicating (OA) [Ghignone, Girling & Prewitt], **60:** 132
canine
during acute sypathectomy by epidural anesthesia (OA) [Klassen, Bramwell, Bromage & Zborowska-Sluis], **52:** 8
effects of anesthesia and surgery on, in ischemic heart disease (EV) [Lowenstein, Hill, Rajagopalan & Schneider], **56:** 81
effects of isoflurane, halothane and enflurane on, compared (OA) [Merin], **55:** 398
in entrapment of mitral valve prosthesis with left atrial catheter (CR) [Porter, Norfleet, Boone, Battaglini & Starek], **60:** 246
during flow-guided pulmonary-artery catheterization (EV) [Lowenstein & Teplick], **53:** 361
intraoperative
in patients undergoing mixed-cell intraportal autotransplantation of pancreatic tissue (CR) [Torres, Traverso & Sohn], **53:** 427
in ketamine or thiopental induction in hypovolemia swine (OA) [Weiskopf, Bogetz, Roizen & Reid], **60:** 214
left ventricular end-diastolic (LVEDP) as index for nitrous oxide use during coronary artery surgery (CR) [Balasaraswathi, Kumar, Rao & El-Etr], **55:** 708
in monitoring of pulmonary arterial pressure in coronary-artery disease (OA) [Mangano], **53:** 364
pulmonary capillary wedge, treatment of stress-induced increases in, using volatile anesthetics (CR) [Roizen, Hamilton & Sohn], **55:** 446

in response to ischemia in swine during halothane and fentanyl anesthesia (OA) [Merin, Verdouw & de Jong], **56:** 84
as result of metocurine in patients with aortic stenosis (CR) [Zaidan & Kaplan], **56:** 395
and sympathetic influences on coronary perfusion and evolving concepts of driving pressure, resistance, and transmural flow regulation (EV) [Klassen, Bramwell, Bromage & Zborowska-Sluis], **52:** 8
vecuronium and pancuronium influence on, in patients undergoing coronary artery bypass grafting (OA) [Morris, Cahalan, Miller, Wilkinson, Quasha & Robinson], **58:** 438
vasopressin
plasma renin
and catecholamine, during nitroprusside induced hypotension in ewes (OA) [Zubrow, Daniel, Stark, Husain & James], **58:** 245
ventricles
in Eisenmenger's syndrome, pulmonary artery catheters and (CO) [Noble, Devitt & Byrick], **58:** 589
in Eisenmenger's syndrome, pulmonary artery catheters and (CO) [Robinson], **58:** 588
in ketamine or thiopental induction in hypovolemia swine (OA) [Weiskopf, Bogetz, Roizen & Reid], **60:** 214
left
mechanics, in hypoxemic respiratory failure, effect of positive end-expiratory pressure on (OA) [Prewitt, Oppenheimer, Sutherland & Wood], **55:** 409
pressure-volume curves
in dogs, effect of altered resistive load on (OA) [Prewitt & Wood], **56:** 195
ventricular function
regional
in myocardium supplied by narrowed coronary artery with increasing halothane concentration in dog (OA) [Lowenstein, Foëx, Francis, Davies, Yusuf & Ryder], **55:** 349
ventricular work
gram-meter and (CO) [Frank], **58:** 297
Wolff-Parkinson-White syndrome
fentanyl and droperidol effects on refractoriness of accessory pathway (OA) [Gómez-Arnau, Márquez-Montez & Avello], **58:** 307
Heart rate, *See under* Heart; Monitoring
Heat, *See under* Hyperthermia; Pain; Temperature
Heating
temperature
T-wave changes related to, during thoracotomy (CR) [Westover & Saidman], **59:** 474
Hematocrit, *See under* Blood
Hematoma, *See under* Blood, anticoagulants; Complications; individual organs
Hematopoiesis, *See under* Blood
Hemiparesis, *See under* Complications; Muscle, skeletal
Hemodialysis, *See under* Kidney
Hemodilution, *See under* Blood; Anesthetic techniques
Hemodynamic response, *See under* Heart; Surgery
Hemodynamics
effects of verapamil, nifedipine, and diltiazem on, during halothane anesthesia in swine (OA) [Kates, Norfleet & Heath], **61:** 10
pulmonary vascular resistance
effects of Ca^{++} entry blockers on (EV) [Reves], **61:** 3
regional blood flow
regional, during high-frequency positive-pressure ventilation (HPPV) and intermittent positive-pressure ventilation (IPPV) (OA) [Bunegin, Smith, Sjostrand, Albin, Babinski, Heisel & Borg], **61:** 416
regional, in normal and hemorrhaged rats, anesthetic influences on (OA) [Seyde & Longnecker], **61:** 686
systemic vascular resistance
effects of Ca^{++} entry blockers on (EV) [Reves], **61:** 3
effects of verapamil, nifedipine, and diltiazem on, during halothane anesthesia in swine (OA) [Kates, Zaggy, Norfleet & Heath], **61:** 10
in interaction of verapamil and isoflurane (OA) [Kates, Kaplan, Guyton, Dorsey, Hug & Hatcher], **59:** 132
Hemofiltration, *See under* Equipment
Hemoglobin, *See under* Blood
Hemolysis, *See under* Blood
Hemorrhage, *See also* Blood, loss; Complications; Shock
estimable allowable blood loss in: corrected for dilution (CR) [Gross], **58:** 277
hypotension produced by, and pharmacologic hypotension, effects of, on cerebral oxygen utilization and flow (OA) [Grubb & Raichle], **56:** 3
intracerebral
after dural puncture and epidural blood patch (CO) [Benzon], **60:** 258
intracranial, *See under* Brain
in ketamine or thiopental induction in hypovolemia swine (OA) [Weiskopf, Bogetz, Roizen & Reid], **60:** 214
massive occult retroperitoneal, during hip surgery (CR) [Brizgys & Hicks], **58:** 473
in rats, anesthetic influence on arteriolar diameters and tissue oxygen tension in (OA) [Longnecker, Ross & Silver], **57:** 177
regional hemodynamics in, anesthetic influences on, in rats (OA) [Seyde & Longnecker], **61:** 686
tissue perfusion
and cardiac output in rats subjected to hemorrhage, influence of ketamine anesthesia on (OA) [Idvall], **55:** 297
uncontrollable
in Ehlers-Danlos syndrome, anesthetic considerations and (CR) [Dolan, Sisko & Riley], **52:** 266
Hemostasis, *See under* Blood
Heparin, *See under* Blood, anticoagulants; Blood, coagulation
Hepatic, *See under* Liver
Hepatic arteries, *See under* Arteries
Hepatic toxicity, *See under* Toxicity
Hepatitis, *See under* Complications; Liver
Hepatitis B, *See under* Infection; Liver
Hepatotoxicity, *See under* Liver; Toxicity
Herniation, *See under* Complications; Heart
Herpesvirus, *See under* Complications
Hexamethonium, *See under* Sympathetic nervous system, ganglion blocking agents
Hexylcaine, *See under* Anesthetics, local
Hiccups, *See under* Complications
High frequency jet ventilation, *See under* Ventilation
High frequency positive pressure ventilation (HFPPV), *See under* Ventilation
High frequency ventilation, *See under* Ventilation
Hip replacement, *See under* Surgery, orthopedic
Hippocampus, *See under* Brain
Hirsch, R. S., Forrest, W. H., Jr., Orkin, F. K., and Woolman, H. (eds.)
Health Care Delivery in Anesthesia (BR), **53:** 358
Histamine, *See also under* Mediators
antagonists
cimetidine
and antacid, compared, for safety and effectiveness in reducing acidity before elective cesarean section (OA) [Hodgkinson, Glassenberg, Joyce, Coombs, Ostheimer & Gibbs], **59:** 86

and diphenhydramine, use of, with morphine anesthesia: double-blind study (OA) [Philbin, Moss, Akins, Rosow, Kono, Schneider, VerLee & Savarese], **55:** 292
release by narcotics and muscle relaxants in humans (MI) [Moss & Rosow], **59:** 330
diphenhydramine
and cimetidine, use of, with morphine anesthesia: double-blind study (OA) [Philbin, Moss, Akins, Rosow, Kono, Schneider, VerLee & Savarese], **55:** 292
atracurium in normal doses may release (CO) [Fox], **60:** 386
cimetidine
—unresolved issues (CO) [Berman & Patel], **60:** 391
—unresolved issues (CO) [Moir], **60:** 391
and amide local anesthetics in obstetrics, potential interactions between (CO) [Hodgkinson], **60:** 508
and amide local anesthetics in obstetrics, potential interactions between (CO) [Moir & McMorland], **60:** 507
leukocyte
to thiopental (CR) [Hirshman, Peters & Cartwright-Lee], **56:** 64
plasma
hemodynamics
and catecholamine concentrations during anaphylactoid reaction to morphine (CR) [Fahmy], **55:** 329
levels
relevance of, to hypotension (CO) [Beaven], **57:** 425
relevance of, to hypotension (CO) [Hirshman, Downes & Butler], **57:** 424
relevance of, to hypotension (CO) [Philbin, Moss, Rosow & Savarese], **57:** 0
ranitidine
in prophylaxis against acid inspiration syndrome in obstetric practice (CO) [Gillett, Watson & Langford], **60:** 525
release during induction with sufentanil or fentanyl (CR) [Rosow, Philbin, Keegan & Moss], **60:** 489
reaction mediated by, to rectally administered methohexital (CR) [Liu, Liu & Moss], **61:** 95
release
in anaphylactoid reactions to anesthetic drugs (EV) [Beaven], **55:** 3
inhalational anesthesia and, during bronchospasm (OA) [Hermens, Edelstein, Hanifin, Woodward & Hirshman], **61:** 69
during morphine and fentanyl anesthesia (OA) [Rosow, Moss, Philbin & Savarese], **56:** 93
study of changes in, with BW A444U-induced block (OA) [Savarese, Ali, Basta, Sunder, Moss, Gionfriddo, Lineberry, Wastila, El-Sayad, Montague & Braswell], **58:** 333
and use of H_1 and H_2 histamine antagonists with morphine anesthesia: double-blind study (OA) [Philbin, Moss, Akins, Rosow, Kono, Schneider, VerLee & Savarese], **55:** 292
role in hypotensive action of *d*-tubocurarine in humans (OA) [Moss, Rosow, Savarese, Philbin & Kniffen], **55:** 19
History
Cullen, Stuart C. (obituary), **52:** 111
curare
discovery of, Gill-Merrill expedition in (SA) [Humble], **57:** 519
development of fluorocarbons: Joseph H. Simmons as pioneer in (CO) [Brown], **61:** 349
diethyl ether
depicted by Robert Hinckley's "The First Operation with Ether" (historical vignette) [Vandam], **52:** 62
in military surgery (SA) [Aldrete, Marron & Wright], **61:** 585
embolism, air (EV) [Albin], **58:** 113
endotracheal intubation, first (CO) [Mihic, Binkert & Novoselac], **52:** 523
Gill-Merrill expedition
in discovery of curare (SA) [Humble], **57:** 519
of gram-meter (CO) [Frank], **58:** 297
Japanese pioneer in clinical use of intrathecal morphine (CO) [Matsuki], **58:** 289
military medicine
first administration of anesthesia in (SA) [Aldrene, Marron & Wright], **61:** 585
Morton, William
use of diethyl ether by, depicted in Robert Hinckley's "The First Operation with Ether" (HV) [Vandam], **52:** 62
peridural anesthesia
origin of balloon technique as epidural-space indicator for (OA) [Castaños], **52:** 193
Rovenstine Memorial Lecture, at annual meeting of American Society of Anesthesiologists (SA) [Hershey], **59:** 453
SI units (CO) [deJong], **58:** 296
special boards, founding of (SA) [Little], **55:** 317
HLA typing, ***See under*** **Immune response**
Hoarseness, ***See under*** **Complications**
Holter monitoring, ***See under*** **Monitoring**
Hormones
ACTH
influence of etomidate on (EV) [Longnecker], **61:** 643
influence of etomidate on, insurgical patients (OA) [Wagner & White], **61:** 647
response of, to surgical stress, effects of etomidate on (OA) [Fragen, Shanks, Molteni & Avram], **61:** 652
adrenal
changes in
and hemodynamic changes, induced by pentolinium and propranolol during surgical correction of scoliosis (OA) [Knight, Lane, Nicholls, Tait, Nahrwold, Hensinger & Cohen], **53:** 127
and metabolite levels of individuals susceptible to malignant hyperpyrexia at rest and in response to food and mild exercise (OA) [Campbell, Ellis & Evans], **55:** 46
and neuroendocrine responses to surgical stress in humans, effects of spinal anesthesia on (OA) [Pflug & Halter], **55:** 120
adrenocorticotropic
effects of fentanyl on (OA) [Dubois, Pickar, Cohen, Gadde, Macnamara & Bunney], **57:** 468
aldosterone
effect of PEEP ventilation on (OA) [Annat, Viale, Xuan, Aissa, Benzoni, Vincent, Gharib & Motin], **58:** 136
influence of etomidate on (EV) [Longnecker], **61:** 643
influence of etomidate on, in surgical patients (OA) [Wagner & White], **61:** 647
response of, to surgical stress, effects of etomidate on (OA) [Fragen, Shanks, Molteni & Avram], **61:** 652
antidiuretic
effect of PEEP ventilation on (OA) [Annat, Viale, Xuan, Aissa, Benzoni, Vincent, Gharib & Motin], **58:** 136
inappropriate secretion of, in neurosurgical patients under balanced anesthesia (CR) [Mehta, Gergis & Sokoll], **59:** 595
in renal response to continuous positive-pressure ventilation in dog, role of sinoaortic baroreceptors in initiating (OA) [Fewell & Bond], **52:** 408
urinary
excretion of, during mechanical ventilation and weaning in man (OA) [Hemmer, Viquerat, Suter & Vallotton], **52:** 395
changes in
effects of fentanyl on (OA) [Dubois, Pickar, Cohen, Gadde, Macnamara & Bunney], **57:** 468

corticosteroids
effects of acute and chronic, on neuromuscular blockade in anesthetized cat (OA) [Durant, Briscoe & Katz], **61:** 144
cortisol
influence of etomidate on (EV) [Longnecker], **61:** 643
influence of etomidate on, in surgical patients (OA) [Wagner & White], **61:** 647
response of, to surgical stress, effects of etomidate on (OA) [Fragen, Shanks, Molteni & Avram], **61:** 652
growth
and neuroendocrine responses to surgical stress in humans, effect of spinal anesthesia on (OA) [Pflug & Halter], **55:** 120
growth deficiency
in suprasellar tumor, juvenile airway in adult with (CR) [Veselis & Korbon], **58:** 481
insulin
continuous infusion of, in management of diabetics (CO) [Clark, Seifen, Jordan, Walts & Miller], **56:** 332
continuous infusion of, in management of diabetics (CO) [Walts & Miller], **56:** 333
dependency on
following mixed-cell intraportal autotransplantation of pancreatic tissue (CR) [Torres, Traverso & Sohn], **53:** 427
glucose-stimulated secretion of
and glucose oxidation in isolated rat pancreatic cells, effects of halothane on (OA) [Gingerich, Wright & Paradise], **53:** 219
in insulinoma
anesthesia for patients under treatment for, with oral diazoxide (CR) [Burch & McLeskey], **55:** 472
in perioperative management of diabetes mellsitus (OA) [Walts, Miller, Davidson & Brown], **55:** 104
preventive administration of, for myocardial protection in cardiac surgery (OA) [Haider, Eckersberger & Wolner], **60:** 422
resistance
and blood glucose control during surgery (EV) [Palumbo], **55:** 93
-secreting tumor, glucose management in patients undergoing operation for removal of (OA) [Muir, Endres, Offord, van Heerden & Tinker], **59:** 371
levels of
and metabolic rate of individuals susceptible to malignant hyperpyrexia at rest and in response to food and mild exercise (OA) [Campbell, Ellis & Evans], **55:** 46
prostaglandins
effect of PEEP ventilation on (OA) [Annat, Viale, Xuan, Aissa, Benzoni, Vincent, Gharib & Motin], **58:** 136
steroids
epidural
and adrenal response to hypoglycemic stress in dogs (OA) [Gorski, Rao, Glisson, Chinthagada & El-Etr], **57:** 364
thyroid
and mechanism of liver necrosis in hyperthyroid rats (CO) [Berman, Kuhnert, Phythyon & Holaday], **59:** 601
and mechanism of liver necrosis in hyperthyroid rats (CO) [Carmichael], **59:** 601
metabolite levels
and metabolic rate, of individuals susceptible to malignant hyperpyrexia at rest and in response to food and mild exercise (OA) [Campbell, Ellis & Evans], **55:** 46
pretreatment
isoflurane and enflurane-induced hepatic necrosis in (OA) [Berman, Kuhnert, Phythyon & Holaday], **58:** 1
and thyrotoxic crisis mimicking malignant hyperthermia (CO) [Stevens], **59:** 263
triiodothyronine
and phenobarbital-hypoxia model, contrasting effects on halothane hepatotoxicity in (OA) [Uetrecht, Wood, Phythyon & Wood], **59:** 196
pretreatment of rats, halothane-induced hepatic necrosis in (OA) [Wood, Berman, Harbison, Hoyle, Phythyon & Wood], **52:** 470
Horner's syndrome, ***See under*** **Sympathetic nervous system**
Horowitz, N. H., and Rizzoli, H. V.
Postoperative Complications of Intracranial Neurological Surgery (BR), **59:** 613
Huch, R., Huch, A., and Lubbers, D. W. (eds.)
Transcutaneous P_{O_2} (BR), **57:** 559
Humidification
in children and adults using controlled partial rebreathing anesthesia method (OA) [Rayburn & Watson], **52:** 291
Humidifiers, ***See under*** **Equipment**
Huth, E. J.
How to Write and Publish Papers in the Medical Sciences (BR), **59:** 170
Hydralazine, ***See under*** **Carbon dioxide; Pharmacology**
Hydration, ***See under*** **Fluid balance**
Hydromorphone, ***See under*** **Analgesics**
Hydrothorax, ***See under*** **Complications**
Hydroxyethyl starch, ***See under*** **Fluid balance**
5-Hydroxytryptamine, ***See under*** **Hormones; Hydrocortisone; Serotonin**
Hydroxyzine, ***See under*** **Ataractics; Hypnotics**
Hyperbaria
pressure reversal
of halothane's antiviral effect (OA) [Bedows & Knight], **59:** 109
Hyperbaric oxygen, ***See under*** **Oxygen**
Hypercapnia, ***See under*** **Acid-base equilibrium; Carbon dioxide**
Hypercarbia, ***See under*** **Acid-base equilibrium, acidosis, respiratory; Blood pressure; Carbon dioxide; Complications**
Hypercoagulable state, ***See under*** **Blood**
Hyperglycemia, ***See under*** **Metabolism**
Hyperkalemia, ***See under*** **Complications; Ions, potassium**
Hyperphosphatemia, ***See under*** **Ions, phosphate**
Hyperpyrexia, ***See under*** **Hyperthermia**
Hypersensitivity, ***See under*** **Allergy**
Hypertension, ***See also under*** **Blood pressure; Complications; Lung(s)**
renovascular
effect of halothane and enflurane (OA) [Woodside, Beckman, Althaus, Peach, Longnecker & Miller], **60:** 440
Hyperthermia
in isolated limb perfusion, anesthesia for (CR) [Cruchley, Kaplan, Waller & Young], **57:** 228
malignant
case of thyrotoxic crisis that mimicked (CO) [Stevens], **59:** 263
controversies in (EV) [Gronert], **59:** 273
Duchenne's muscular dystrophy and: another warning (CO) [Rosenberg & Heiman-Patterson], **59:** 362
low molecular weight proteins in, in humans (LR) [Blanck, Fisher, Thompson & Muldoon], **61:** 589
management of, implications for dantrolene in (OA) [Flewellen, Nelson, Jones, Arens & Wagner], **59:** 275
and masseter spasm with anesthesia (OA) [Schwartz, Rockoff & Koka], **61:** 772
masseter spasm heralds (CO) [Badgwell & Heavner], **61:** 230
after oral and intravenous pretreatment with dantrolene in patient susceptible to malignant hyperthermia (CR) [Ruhland & Hinkle], **60:** 159

platelet bioassay in (CO) [Giger & Kaplan], **60:** 266
platelet bioassay in (CO) [Solomons & Masson], **60:** 265
pregnant patients susceptible to, placental transfer of dantrolene and (CO) [Morison], **59:** 265
during prolonged anesthetic for reattachment of limb (CR) [Murphy, Conlay, Ryan & Roberts], **60:** 149
prophylactic and therapeutic doses of dantrolene for (CO) [Flewellen & Nelson], **61:** 477
prophylactic and therapeutic doses of dantrolene for (CO) [Hinkle & Ruhland], **61:** 477
protocols for managing effective way to disseminate (CO) [Watson & Forfleet], **60:** 510

malignant pyrexia
anesthetic management of child with asthma and presumed susceptibility to (CR) [Vaughn, Casson & Hirshman], **58:** 283
dantrolene and, (CO) [Dolan], **57:** 246
dantrolene dose response in (OA) [Flewellen & Nelson], **52:** 303
in Duchenne muscular dystrophy (CR) [Brownell, Paasuke, Elash, Fowlow, Seagram, Diewold & Friesen], **58:** 180
in genetic susceptibility to anesthesia (RA) [Gronert], **53:** 395
halothane-induced ATP depletion in platelets from patients susceptible to (OA) [Giger & Kaplan], **58:** 347
HLA typing in family prone to (CR) [Lutsky, Witkowski & Henschel], **56:** 224

human
dantrolene in (OA) [Kolb, Horne & Martz], **56:** 254

model of
modification of ryanodine toxicity by dantrolene and halothane in (OA) [Fairhurst, Hamamoto & Macri], **53:** 199
patients considered to be susceptible to, potential value of expiratory carbon dioxide measurement in (CO) [Triner & Sherman], **55:** 482
platelet aggregation in patients susceptible to (OA) [Rosenberg, Fisher, Reed & Addonizio], **55:** 621

porcine
cerebral metabolism during (OA) [Artru & Gronert], **53:** 121
intravenous dantrolene sodium in (CO) [Chapin, Lou & Wingard], **54:** 527
following preoperative oral administration of dantrolene (CR) [Fitzgibbons], **54:** 73
puzzles in (EV) [Gronert], **54:** 1
at rest and in response to food and mild exercise, metabolic rate and blood hormone and metabolite levels of individuals susceptible to (OA) [Campbell, Ellis & Evans], **55:** 46
sevoflurane triggers, in swine (CO) [Shulman, Braverman, Ivankovich & Gronert], **54:** 259
triggered by cyclopropane during cesarean section (CR) [Lips, Newland & Dutton], **56:** 144

metabolism
glycogen storage
and ketoacidosis, during anesthesia in a child with glycogen-storage disease (CR) [Edelstein & Hirshman], **52:** 90

pyrexia
prophylactic use of dantrolene for (CO) [Wingard], **58:** 489

Hypertonic phosphate enemas, *See under* Enemas
Hypertrophic aortic stenosis, *See under* Heart
Hypnotics
barbiturates
benzodiazepines
diazepam, and lorazepam, time course of anti-recall effect of, following oral administration (OA) [Kothary, Brown, Pandit, Samra & Pandit], **55:** 641

etomidate
vs. thiopental, with and without fentanyl—a comparative study of awakening in man (CR) [Horrigan, Moyers, Johnson, Eger, Margolis & Goldsmith], **52:** 362
general anesthesia with, in "inducible" porphyrias (OA) [Mustajoki & Heinonen], **53:** 15

lorazepam
and diazepam, time course of anti-recall effect of, following oral administration (OA) [Kothary, Brown, Pandit, Samra & Pandit], **55:** 641

methohexital
inhibitory effects of, on lipid peroxidation in brain tissue *in vitro* (OA) [Smith, Rehncrona & Siesjö], **53:** 186

midazolam
effective dose of (CO) [Reves, Kissin & Smith], **55:** 82
inhibition of GABA metabolism in rat brain synaptosomes by (OA) [Cheng & Brunner], **55:** 41
pharmacokinetics, automated gas chromatography for studies of (LR) [Greenblatt, Locniskar, Ochs & Lauven], **55:** 176

pentobarbital
effects of, on lipid peroxidation in brain tissue *in vitro* (OA) [Smith, Rehncrona & Siesjö], **53:** 186
and halothane anesthesia, brain intracellular *p*H blood flow, and blood-brain barrier differences with (OA) [Anderson, Michenfelder & Sundt], **52:** 201
with halothane-succinylcholine anesthesia, and cerebral metabolism during porcine malignant hyperthermia (OA) [Artru & Gronert], **53:** 121
in inhibition of synaptosomal GABA disposal (OA) [Cheng & Brunner], **55:** 34
and triiodothyronine pretreatment, after necrosis in (OA) [Berman, Kuhnert, Phythyon & Holaday], **58:** 1

phenobarbital
effects of, on lipid peroxidation in brain tissue *in vitro* (OA) [Smith, Rehncrona & Siesjö], **53:** 186
and synaptosomal GABA disposal (OA) [Cheng & Brunner], **55:** 34
and triiodothyronine pretreatment of rats, halothane-induced hepatic necrosis in (OA) [Wood, Berman, Harbison, Hoyle, Phythyon & Wood], **52:** 470
protection of brain from hypoxic damage by, mechanisms of (EV) [Steen & Michenfelder], **53:** 183
structural specificity of (MI) [Andrews & Mark], **57:** 314

thiopental
anaphylaxis, immunoglobulin E fluctuation in (CR) [Etter, Helrich & Mackenzie], **52:** 181
bioassay of a water-soluble benzodiazepine against (OA) [Sarnquist, Mathers, Brock-Utne, Carr, Canup & Brown], **52:** 149
etomidate vs., with and without fentanyl—a comparative study of awakening in man (CR) [Horrigan, Moyers, Johnson, Eger, Margolis & Goldsmith], **52:** 362
hypothermia plus: prolonged electroencephalographic suppression (OA) [Quasha, Tinker & Sharbrough], **55:** 636
inhibitory effects of, on lipid peroxidation in brain tissue *in vitro* (OA) [Smith, Rehncrona & Siesjö], **53:** 186

benzodiazepines
diazepam
anesthesia with, and myocardial contractility (CO) [Kissin], **53:** 78
antagonism of, by physostigmine (CO) [Bidwai & Stanley], **52:** 372
and barbiturates, effects of, on lipid peroxidation in brain tissue *in vitro,* compared (OA) [Smith, Rehncrona & Siesjö], **53:** 186

in comparison of changes in hypoglossal and phrenic nerve activity in response to increasing depth of anesthesia in cats (OA) [Nishino, Shirahata, Yonezawa & Honda], **60:** 19
droperidol, and physostigmine, influence of, on ketamine-induced behavior and brain regional glucose utilization in rat (OA) [Oguchi, Arakawa, Nelson & Samson], **57:** 353
effect of, on cerebral metabolic state in rats and its interaction with nitrous oxide (OA) [Carlsson & Chapman], **54:** 488
hemodynamic response to: dependence on proper left ventricular end-diastolic pressure (CR) [Dauchot, Staub, Berzina, van Heeckeren, Mackay & Sirvaitis], **60:** 499
and intracranial pressure (CR) [Tateishi, Maekawa, Takeshita & Wakuta], **54:** 335
intravenous, "puff" technique for (CO) [Mark], **61:** 630
intravenous, time course of ventilatory response to carbon dioxide after (OA) [Gross, Smith & Smith], **57:** 18
naloxone reversal of effects of (CO) [Bell], **53:** 264
physostigmine reversal of (CO) [Rupreht], **53:** 180
respiratory depression by (OA) [Forster, Gardaz, Suter & Germperle], **53:** 494
respiratory depression following, reversal with high-dose naloxone (OA) [Jordan, Lehane & Jones], **53:** 293
lorazepam
intravenously administered, cerebral circulatory and metabolic responses to (OA) [Rockoff, Naughton, Shapiro, Ingvar, Ray, Gagnon & Marshall], **53:** 215
premedication with, in fentanyl anesthesia, and awareness (CO) [Mainzer], **56:** 331
midazolam
effects of, on cerebral blood flow in humans (OA) [Forster, Juge & Morel], **56:** 453
-induced sedation, physostigmine reversal of (CR) [Caldwell & Gross], **57:** 125
induction of anesthesia with, decreases halothane MAC in humans (CR) [Melvin, Johnson, Quasha & Eger], **57:** 238
respiratory depression by (OA) [Forster, Gardaz, Suter & Germperle], **53:** 494
midazolam maleate
bioassay of, against sodium thiopental (OA) [Sarnquist, Mathers, Brock-Utne, Carr, Canup & Brown], **52:** 149
and neuroleptic drugs, current theories about mechanisms of (MI) [Richter], **54:** 66
respiratory depression and psychomotor effects caused by, physostigmine as antagonist of (OA) [Bourke, Rosenberg & Allen], **61:** 523
butyrophenones
droperidol
effects of, on respiratory drive in humans (OA) [Prokocimer, Delavault, Rey, Lefevre, Mazze & Desmonts], **59:** 113
midazolam
effect of age, gender, and obesity on (OA) [Greenblatt, Abernethy, Locniskar, Harmatz, Limjuco & Shader], **61:** 27
paraldehyde
in inhibition of synaptosomal GABA disposal (OA) [Cheng & Brunner], **55:** 34
Hypocalcemia, *See under* Complications; Ions, calcium
Hypocapnia, *See under* Acid-base equilibrium, alkalosis, respiratory; Carbon dioxide, hypocarbia
Hypocarbia, *See under* Acid-base equilibrium, alkalosis, respiratory; Carbon dioxide
Hypoglossal nerve, *See under* Nerve
Hypoglycemia, *See under* Complications; Metabolism
Hypokalemia, *See under* Ions, potassium
Hypokalemic periodic paralysis, *See under* Complications
Hypophysectomy, *See under* Hormones
Hypotension, *See under* Anesthetic techniques, hypotension, induced; Blood pressure; Complications; Heart; Position; Shock
Hypothermia, *See also under* Anesthetic techniques; Temperature
during awakening from anesthesia (OA) [Rosenberg, Clofine & Bialik], **54:** 125
and barbiturates
effects of, on cerebral oxygen consumption (OA) [Steen, Newberg, Milde & Michenfelder], **58:** 527
brain
and normothermia
in rat, effect of high versus low arterial oxygen content on cerebral energy metabolite levels during (OA) [Keykhak, Hägerdal, Welsh, Barrer, Sisco & Harp], **52:** 492
after cardiopulmonary bypass in man, amelioration by nitroprusside-induced vasodilation (OA) [Noback & Turner], **53:** 277
after cardiopulmonary bypass in man (CO) [Caldwell, Crawford & Sinclair], **55:** 86
after cardiopulmonary bypass in man (CO) [Karis], **56:** 233
after cardiopulmonary bypass in man (CO) [Crawford], **56:** 234
during cardiopulmonary bypass, rectal temperature is best indicator of adequate rewarming during (CO) [Azar], **55:** 189
cardiopulmonary bypass with, pancuronium in (OA) [d'Hollander, Duvaldestin, Henzel, Nevelsteen & Bomblet], **58:** 505
deep body thermometry in, during general anesthesia (CR) [Muravchick], **58:** 271
effect of, on visual evoked potentials (VEP) in humans (CR) [Russ, Kling, Loesevitz & Hempelmann], **61:** 207
and electroencephalogram (CO) [Levy], **58:** 396
and electroencephalogram (CO) [Sharbrough, Quasha & Tinker], **58:** 396
lidocaine
and thiopental effects, in increase in extracellular potassium in brain during circulatory arrest (OA) [Astrup, Skovsted, Gjerris & Sørensen], **55:** 256
low-grade
cerebral protective effect of (OA) [Berntman, Welsh & Harp], **55:** 495
management of acid-base balance during (EV) [Williams & Marshall], **56:** 1
pancuronium retains potency at (OA) [Horrow & Bartkowski], **58:** 357
pentobarbital
and lidocaine, inhibition of cerebral oxygen and glucose consumption in dog by (OA) [Astrup, Sørensen & Sørensen], **55:** 263
pharmacokinetics and dynamics of *d*-tubocurarine during, in humans (OA) [Ham, Stanski, Newfield & Miller], **55:** 631
plus thiopental: prolonged electroencephalographic suppression (OA) [Quasha, Tinker & Sharbrough], **55:** 636
prolonged
and rewarming, detrimental effects of (OA) [Steen, Milde & Michenfelder], **52:** 224
quantitative analysis of EEC changes during (OA) [Levy], **60:** 291
temperature correction of P_{CO_2} and *p*H in, and estimating acid-base status (MI) [Ream, Reitz & Silverberg], **56:** 41
Hypovolemia, *See under* Blood, loss; Blood volume; Complications
Hypoxemia, *See under* Blood; Complications; Oxygen
Hypoxia, *See also under* Complications; Oxygen; *and specific organs*
accidents, prevention of (CO) [Eisenman], **61:** 624
alveolar
intermittent
increases lobar hypoxic pulmonary vasoconstriction (OA) [Benumof], **58:** 399

can we do without O_2 analyzers? (CO) [Ditchik & Herr], **61:** 629
cerebral protection by isoflurane during (OA) [Newberg & Michenfelder], **59:** 29
and changes in Pa_{CO_2} and Pa_{O_2} in cat, modification of laryngospasm in response to (OA) [Nishino, Yonezawa & Honda], **55:** 286
cluttered anesthesia machine as cause for (CO) [Henling & Diaz], **58:** 288
effects of, on sulfobromophthalein disposition in rats (OA) [Hurwitz & Fischer], **60:** 537
failure to use oxygen analyzers to prevent (CO) [Rendell-Baker & Meyer], **58:** 287
fentanyl and, in dogs (OA) [McPherson & Traystman], **60:** 180
from gas mixture
failure of new system to prevent (CO) [Davis], **54:** 437
failure of new system to prevent (CO) [Malone], **54:** 436
halothane effects on carotid body chemoreceptors to (EV) [Knill & Gelb], **57:** 151
after halothane, enflurane, and isoflurane anesthesia, hepatic injury following, in rats (OA) [Harper, Collins, Johnson, Eger & Biava], **56:** 14
and halothane and ischemic injury (CO) [Kissin & Reves], **60:** 74
and hypercapnia, in cat, halothane depresses response of carotid body chemoreceptors to (OA) [Davies, Edwards & Lahiri], **57:** 153
and hypoxemia following cardiopulmonary bypass (CR) [Byrick, Kolton, Hart & Forbath], **53:** 172
hypoxic pulmonary vasoconstriction
intermittent, another point of view on (EV) [Marshall], **55:** 200
lobar
intermittent hypoxia increases (OA) [Benumof], **58:** 399
potentiation of, by intermittent hypoxia in dogs (OA) [Pirlo, Benumof & Trousdale], **55:** 226
unilateral lung lavage in, ipsilateral pulmonary artery balloon inflation in, in dogs (OA) [Alfery, Zamost & Benumof], **55:** 376
in improper use of selector shunt valves (CO) [Deas], **56:** 239
lung
perfusion shift to, following pulmonary embolism (OA) [Fisher, Noble & Kay], **54:** 204
minimizing of
during one-lung ventilation in dogs, improving oxygenation in (OA) [Alfery, Benumof & Trousdale], **55:** 381
nitroglycerin-induced
deep breathing and (CR) [Kopman], **55:** 74
operating room (CO) [Birch], **59:** 365
and phenobarbital-pretreatment of rats, halothane induced hepatic necrosis in (OA) [Wood, Berman, Harbison, Hoyle, Phythyon & Wood], **52:** 470
phenobarbital-, and triiodothyronine model, contrasting effects on halothane hepatotoxicity in (OA) [Uetrecht, Wood, Phythyon & Wood], **59:** 196
postoperative
due to opening of patent foramen ovale confirmed during mechanical ventilation (CR) [Lemaire, Richalet, Carlet, Brun-Buisson & MacLean], **57:** 233
prevention
simple, fool-proof method of (CO) [Zorab], **60:** 515
protection from, midazolam maleate and diazepam for, compared (OA) [Nugent, Artru & Michenfelder], **56:** 172
and pulmonary barotrauma, in accidental disconnection (CO) [Rendell-Baker & Meyer], **58:** 286
pulmonary blood pressure and flow during, in dog (OA) [Glasser, Domino, Lindgren, Parcella, Marshall & Marshall], **58:** 225
pulmonary edema with, in healthy teenagers following conservative doses of intravenous naloxone (CR) [Prough, Roy, Bumgarner & Shannon], **60:** 485
pulmonary vasoconstriction in, in rat lungs *in vitro*, effects of halothane, enflurane, and isoflurane on (OA) [Martin, Lindgren & Marshall], **60:** 304
and respiratory distress and beta-endorphin-like immunoreactivity in humans (OA) [Yanagida & Corssen], **55:** 515
ventilation
drive, halothane-induced depression of, does almitrine restore? (CO) [Ward], **61:** 627
ventilatory response to, effect of lidocaine infusion on (OA) [Gross, Caldwell, Shaw & Apfelbaum], **61:** 662
withdrawal
different laryngeal responses during respiratory arrest produced by, in cats (OA) [Nishino, Yonezawa & Honda], **56:** 280
Hypoxic pulmonary vasoconstriction, *See under* Lung(s)
Hypoxic response, *See under* Ventilation
Hysterectomy, *See under* Surgery, gynecologic

I

Ibuprofen, *See under* Histamine, antagonists, antihistamine
Idiopathic hypertrophic subaortic stenosis, *See under* Heart
Immune response
acquired immunodeficiency disease (AIDS), and blood products (EV) [Miller & Bove], **58:** 493
complement fraction C_3
in thiopental anaphylaxis and reagin involvement (CR) [Lilly & Hoy], **53:** 335
complement fraction C_4
in thiopental anaphylaxis and reagin involvement (CR) [Lilly & Hoy], **53:** 335
to halothane metabolite, effects of, on halothane-induced liver damage (LR) [Ford, Coyle & Harrington], **60:** 141
HLA typing, in family prone to malignant hyperthermia (CR) [Lutsky, Witkowski & Henschl], **56:** 224
immunoglobulin E
in thiopental anaphylaxis and reagin involvement (CR) [Lilly & Hoy], **53:** 335
thiopental
immunoglobulin E fluctuation in (CR) [Etter, Helrich & Mackenzie], **52:** 181
Impedance, electrical, *See under* Measurement techniques
Impedance cardiography, *See under* Monitoring
Induced hypotension, *See under* Anesthetic techniques
Induction
anesthesia, *See also under* Anesthetic techniques
"crash," pretreatment and (CO) [Jenkins], **61:** 346
in female patients undergoing surgery, thiopental disposition as function of age in (OA) [Jung, Mayersohn, Perrier, Calkins & Saunders], **56:** 263
with intravenous thiopental
dilation of pupil in human subjects after (CR) [Larson], **54:** 246
in lean and obese patients undergoing surgery, thiopental disposition in (OA) [Jung, Mayersohn, Perrier, Calkins & Saunders], **56:** 269
anesthetic
technique of, humaneness of, questioned (CO) [Gilroy], **59:** 260
technique of, humaneness of, questioned (CO) [Murphy & Hug], **59:** 260
enzyme
phenobarbital
and triiodothyronine pretreatment of rats, halothane-induced

hepatic necrosis in, (OA) [Wood, Berman, Harbison, Hoyle, Phython & Wood], **52:** 470
Infant(s), *See under* Anesthesia, pediatric; Obstetric
Infarction, *See under* Brain; Heart
Infection
in epidural and caudal techniques, bacteriologic comparison between (CR) [Abouleish, Orig & Amoretegui], **53:** 511
hepatitis B
markers in pediatric anesthesia personnel (CO) [Berry, Isaacson & Kane], **61:** 622
markers in pediatric anesthesia personnel (CO) [Friesen], **61:** 622
prevalence of viral markers of, in anesthesia personnel (OA) [Berry, Isaacson, Hunt & Kane], **60:** 6
vaccination of high-risk hospital personnel (EV) [Oxman], **60:** 1
opportunistic, acquired immunodeficiency syndrome (AIDS) and blood products and (EV) [Miller & Bove], **58:** 493
viral
as case for using disposable anesthesia circuitry (CO) [Viegas, Cummins, Ravindran & Stoops], **60:** 169
hospital-associated, and anesthesiologist (MI) [duMoulin & Hedley-Whyte], **59:** 51
Infertility, *See under* toxicity
Infiltration, topical, *See under* Anesthetic techniques
Influenza, *See under* Complications; Infection(s); Virus(es)
Infrared, *See under* Measurement techniques
Infrared heat lamp, *See under* Equipment
Infusion pumps, *See under* Equipment
Inhalation anesthesia, *See under* Anesthetic techniques; Anesthetics, gases; Anesthetics, volatile
Inhibition, *See under* Metabolism; Biotransformation
Innovar, *See under* Anesthetics, intravenous
Inosine, *See under* Metabolism
Insufficiency, arterial, *See under* Complications
Insufflation, *See under* Anesthetic techniques; Carbon dioxide
Insulin, *See under* Heart; Hormones; Metabolism
Insulinoma, *See under* Surgery
Intensive care
postoperative respiratory
controlled trial of early and late extubation in, following coronary-artery bypass grafting (OA) [Quasha, Loeber, Feeley, Ullyot & Roizen], **52:** 135
treatment of shock in (SM), **52:** 379
Intensive care units
endocrine
for perioperative control of diabetes (CO) [Palumbo], **56:** 242
for perioperative control of diabetes (CO) [Roizen], **56:** 242
Interaction
neuromuscular relaxants
on indirectly elicited muscle twitch (OA) [Waud & Waud], **61:** 420
Interactions (drug). *See also* Antagonists, narcotic; Antagonists, neuromuscular relaxants; Pharmacology
halothane antagonizes effect of morphine on motor reaction threshold in rats (OA) [Kissin & Jebeles], **61:** 671
-lidocaine, hypnotic effect of, in rat (LR) [Kissin & McGee], **57:** 311
morphine-halothane, in rats (OA) [Kissin, Kerr & Smith], **60:** 553
nitroprusside and propanolol on hypoxic pulmonary vasoconstriction (OA) [Miller, Benumof & Trousdale], **57:** 267
in succinylcholine infusion during isoflurane anesthesia (OA) [Donati & Bevan], **58:** 6
thiopental, ketamine, and midazolam compared for rapid sequence induction (OA) [White], **57:** 279
Intercostal block, *See under* Anesthetic techniques, regional
Intermittent positive-pressure ventilation (IPPV), *See under* Ventilation
Interscalene anesthesia, *See under* Anesthetic techniques
Interscalene brachial plexus, *See under* Anesthetic techniques, regional
Intestine
blood flow
and systemic hemodynamics and oxygen utilization in dog, effects of sodium nitroprusside on (OA) [Fan, Kim, Simchon, Chen, Schuessler & Chien], **53:** 113
Intracerebral hemorrhage, *See under* Hemorrhage
Intracoronary streptokinase, *See under* Heart
Intracranial pressure, *See under* Brain; Cerebrospinal fluid, pressure
Intragastric pressure, *See under* Measurement techniques
Intramyocardial pressures, *See under* Heart
Intraocular pressure, *See under* Eye(s)
Intrapericardial pneumonectomy, *See under* Lung(s)
Intravascular pressures, *See under* Lung(s)
Intravenous anesthetics, *See under* Anesthetic techniques; Anesthetics, intravenous
Intravenous regional anesthesia, *See under* Anesthetic techniques
Intravenous tubing, *See under* Equipment
Introducers, *See under* Equipment
Intubation
endotracheal
accidents, early detection of, by monitoring carbon dioxide concentration in respiratory gas (CR) [Murray & Modell], **59:** 344
in adult epiglottis (CO) [Bishop & Weymuller], **57:** 545
another way to insert Mackintosh blade (CO) [Bourke & Lawrence], **59:** 80
cause and prevention of maternal aspiration and (CO) [Gibbs, Rolbin & Norman], **61:** 111
complications
in acromegaly, use of fiberoptic laryngoscopy to avoid (CR) [Ovassapian, Doka & Romsa], **54:** 429
airway foreign body (CO) [Hard & Nargozian], **61:** 786
and airway management during anesthesia in patients with epidermolysis bullosa dystrophica (CR) [James & Wark], **56:** 323
airway tear (CR) [Freiberger], **61:** 204
avoidance of, in study of succinylcholine-induced postoperative sore throat (OA) [Capan, Bruce, Patel & Turndorf], **59:** 202
in carbon dioxide laser microsurgery of larynx (CO) [Palas], **55:** 714
and influence of tube cuff design and lubrication on postoperative sore throat (CR) [Loeser, Kaminsky, Diaz, Stanley & Pace], **58:** 376
in juvenile airway in adult with suprasellar tumor (CR) [Veselis & Korbon], **58:** 481
lidocaine in prevention of; intravenous or laryngotracheal (CR) [Hamill, Bedfor, Weaver & Colohan], **55:** 578
of lightwand-guided (CR) [Stone, Stirt, Kaplan & McLean], **61:** 780
modification of Macintosh laryngoscope blade for (CO) [Ibler], **58:** 200
obstruction as, another cause of (CO) [Wiegert], **59:** 164
obstruction (CO) [Famewo], **58:** 593
obstruction as another cause of (CO) [McTaggart, Shustack, Noseworthy & Johnstown], **59:** 164
in partial severance of oronasotracheal tube during le Fort I procedure (CO) [Patel, Cotten & Turndorf], **53:** 357

pharyngeal and esophageal perforation following (CR) [O'Neill, Giffin & Cottrell], **60:** 487
and postextubation sore throat (CO) [Bernhard], **59:** 603
postoperative sore throat as, what are real factors associated with? (CO) [Loeser & Stanley], **54:** 171
postoperative sore throat as, what are real factors associated with? (CO) [Youngberg], **54:** 171
sharp edges causing (CO) [Skaredoff & Poppers], **58:** 595
sharp edges causing (CO) [Weibel & Mathews], **58:** 595
and simple system for transtracheal ventilation (CO) [Gildar], **58:** 106
sore throat, lubrication of tracheal tubes in prevention of (CR) [Stock & Downs], **57:** 418
technique, fiberoptic gastroscope in (CR) [Shulman & Trollope], **56:** 476
technique, in laryngeal web (CR) [Capistrano-Baruh, Wenig, Steinberg, Stegnjajic & Baruh], **57:** 123
ulceration of inferior turbinate as (CR) [Sherry], **59:** 148
unusual cause of (CO) [Harrington], **61:** 116
of use of microlaryngeal surgery endotracheal tube (CO) [Torres & Reynolds], **53:** 355

effects of
on normal cough performance (OA) [Gal], **52:** 324
in epiglottis in adult (CR) [Bishop], **55:** 697

equipment
new, for head and neck surgery (CO) [Shupak], **60:** 621

fiberoptic
for airway management in patients with acromegaly (CO) [Messick, Cucchiara & Faust], **56:** 157
mechanical aids for (CO) [Patil, Stehling, Zauder & Koch], **57:** 69

hemodynamic response
and propranolol during coronary artery bypass surgery (OA) [Sill, Nugent, Moyer, Torres, Schaff & Tinker], **60:** 455
and IV, of lidocaine, compared (CO) [White], **56:** 414
and IV, of lidocaine, compared (CO) [Hamill, White, Bedford, Weaver & Colohan], **56:** 415
and mechanism of tracheal constriction by succinylcholine (OA) [Koga], **55:** 138
modification of pediatric laryngoscope for (CO) [Moynihan], **56:** 330
new pediatric laryngoscope (CO) [Matsuki], **57:** 556

pediatric
difficult, fiberoptic bronchoscope in (CO) [Ovassapian, Dykes & Yelich], **56:** 412

postoperative
controlled trial of early and late extubation in, following coronary-artery bypass grafting (OA) [Quasha, Loeber, Felley, Ullyot & Roizen], **52:** 135
pulmonary mechanics in normal subjects following (OA) [Gal], **52:** 27
in rapid sequence induction in patients with full stomach (CO) [Baraka], **57:** 543
rat, modified laryngoscope blade for (CO) [Morgan], **57:** 431

retrograde technique
new approach to, in difficult pediatric intubation (CR) [Borland, Swan & Leff], **55:** 577
in selective endobronchial blocking versus selective intubation (CO) [Dalens, Labbé & Haberer], **57:** 555

technique
(CO) [Patil, Stehling, Zauder & Koch], **57:** 69
in acquired laryngeal deviation in erosive polyarticular arthritis (OA) [Keenan, Stiles & Kaufman], **58:** 441
in acromegalic patient (CO) [Venus], **52:** 100
aid for (CO) [Hansen, Reinhold & Wendt], **60:** 620
and airway management in parturient (CO) [Parker], **60:** 167
assessment of air volume in endotracheal tube cuffs in (CO) [Chander], **53:** 437
balloon catheter in, for nasal intubation (CO) [Kawamoto & Shimidzu], **59:** 484
to change tube, endorsement of use of fiberoptic bronchoscope in (CO) [Watson], **55:** 476
for changing tube, is neither new nor better (CO) [Millen], **54:** 352
comments from experienced user on (CO) [Williams], **61:** 108
continuous oxygenation during (CO) [Goldman & McDonald], **61:** 352
in difficult intubations, adjustable laryngoscope handle for (CO) [Patil, Stehling & Zauder], **60:** 609
Einstein carbon dioxide detector in (CO) [Berman, Furgiuele & Marx], **60:** 614
to facilitate fiberoptic laryngoscopy (CO) [Wangler & Weaver], **61:** 111
fiberoptic bronchoscope in (CO) [Patil, Stehling & Zauder], **55:** 484
fiberoptic endoscopy-aided (CR) [Rogers & Benumof], **59:** 579
fiberoptic laryngoscopy, to avoid tracheostomy, in acromegaly (CR) [Ovassapian, Doka & Romsa], **54:** 429
with fixation device constructed from discarded oxygen tubing and umbilical tape (CO) [Klein], **60:** 76
guided, complication following (CO) [Adams], **58:** 105
new fiberoptic, in transillumination for correct tube positioning (CO) [Watson & Clapham], **60:** 253
in patient with Hallevorden-Spatz disease (CR) [Roy, McLain, Wise & Schaffner], **58:** 382
in placement of breathing tube, carbon dioxide detection to verify (CO) [Bashein & Cheney], **61:** 782
polio laryngoscope blade in (CO) [Lagade & Poppers], **57:** 545
and postextubation sore throat (CO) [Bernhard], **59:** 603
safe, for changing endotracheal tubes (CO) [Desai & Fencl], **53:** 267
for surgical corrections in flexion deformity of cervical spine (CR) [Ovassapian, Land, Schafer, Cerullo & Zalkind], **58:** 307
tracheal tube guide in, to facilitate nasotracheal intubation (CO) [Chester], **60:** 522
use of cold nasogastric tubes in, corrects problems due to pliability (CO) [Teeple & Bowe], **55:** 477
use of flexible radiopaque directable catheter in, for difficult tracheal intubations (CO) [Davidson, Reynolds & Stewart], **55:** 605
to verify proper positioning (CO) [Triner], **57:** 548
Ts of (CO) [Berger & Stirt], **58:** 105

epistaxis and
as unusual complication of nasotracheal intubation (CR) [Scamman & Babin], **59:** 352

esophageal
accidents, early detection of, by monitoring carbon dioxide concentration in respiratory gas (CR) [Murray & Modell], **59:** 344

nasotracheal. ***See also under*** **Equipment**
aid to (CO) [Berger & Stirt], **58:** 105
blind, use of stylet in (CR) [Berry], **61:** 469
guided, complication following (CO) [Adams], **58:** 105
unusual complication of (CR) [Scammon & Babin], **59:** 352

technique
blind nasotracheal, use of stylet in (CR) [Berry], **61:** 469
direct transthoracic endobronchial (CO) [Stevens], **53:** 83

endotracheal
of neonates, modified laryngoscope for (CO) [Hencz], **53:** 84

Intubation-extubation anesthesia, *See under* Anesthetic techniques

In vivo oxygen saturation, *See under* Measurement techniques

Ion channels
calcium, and differential effects of halothane on nicotinic- and muscarinic-receptor-mediated responses of dog adrenal medulla (OA) [Sumikawa, Matsumoto, Ishizaka, Nagai, Amenomori & Amakata], **57:** 444
sodium, and differential effects of halothane on nicotinic- and muscarinic-receptor-mediated responses of dog adrenal medulla (OA) [Sumikawa, Matsumoto, Ishizaka, Nagai, Amenomori & Amakata], **57:** 444

Ions
bromide
measurement of, following halothane anesthesia in obese and nonobese patients (OA) [Bentley, Vaughan, Gandolfi & Cork], **57:** 94
calcium
and acute hyperkalemia in halothane-anesthetized dogs, effects of verapamil on (OA) [Nugent, Tinker & Moyer], **60:** 435
biochemical alterations of
during tetany (CR) [Drop & Miller], **52:** 82
blockers
entry, uses and implications for anesthesiologists (RA) [Reves, Kissin, Lell & Tosone], **57:** 504
and calcium channel inhibitor infusion during enflurane, isoflurane, or halothane anesthesia in dog, cardiovascular response to [Kapur, Bloor, Flacke & Olewine], **61:** 156
concentration
and Q-T intervals (CO) [Scheidegger & Drop], **52:** 452
conductivity
and epinephrine-induced arrhythmias and cardiovascular function after verapamil during halothane anesthesia in dog (OA) [Kapur & Flacke], **55:** 218
in DiGeorge syndrome anesthesia for surgery in (CR) [Flashburg, Dunbar, August & Watson], **58:** 479
electrolyte imbalance, in ammonia toxicity from glycine absorption during urologic surgery (CR) [Roesch, Stoeltine, Lingeman, Kahnoski, Backes & Gephardt], **58:** 577
and halothane sensitization of carotid sinus baroreceptors (OA) [Seagard, Hopp, Bosnjak, Elegbe & Kampine], **58:** 432
hypocalcemia
enema-induced, leading to cardiac arrest during induction of anesthesia in outpatient surgery (CR) [Reedy & Zwiren], **59:** 588
in interaction of verapamil and isoflurane (OA) [Kates, Kaplan, Guyton, Dorsey, Hug & Hatcher], **59:** 132
and involvement of endotoxin in halothane-associated liver injury [Lind, Gandolfi, Sipes & Brown], **61:** 544
and lidocaine, interactions of, in blocking compound action potential of frog sciatic nerve (OA) [Saita, Akutagawa, Kitahata, Stagg, Collins & Scurlock], **60:** 205
nifedipin
preoperative, and anesthesia in coronary heart disease (CO) [Skarvan], **59:** 362
and verapamil decreasing MAC for halothane in dogs (OA) [Maze, Mason & Kates], **59:** 327
and physostigmine, in reversal of disturbance of consciousness and hypocalcemia after neomycin irrigation (CR) [Yao, Seidman & Artusio], **53:** 69
potassium, and hypokalemic familial periodic paralysis (CR) [Melnick, Chang, Larson & Bedger], **58:** 263
and relative hemodynamic effects of Ca^{++} entry blockers (EV) [Reves], **61:** 3
sodium, imbalance of, in ammonia toxicity from glycine absorption during urologic surgery (CR) [Roesch, Stoelting, Lingeman, Kahnoski, Backes & Gephardt], **58:** 577
in study of comparative cardiovascular effects of verapamil, nifedipine, and diltiazem during halothane anesthesia in swine (OA) [Kates, Zaggy, Norfleet & Heath], **61:** 10
uptake
and myocardial depression, effects of enflurane on (OA) [Su & Kerrick], **52:** 385
and volatile anesthetics (EV) [Lynch], **61:** 644

calcium entry blockers
verapamil
potentiation of neuromuscular blockade by (OA) [Durant, Nguyen & Katz], **60:** 298
site of action of, on skeletal muscle (CO) [Foldes], **61:** 783
site of action of, on skeletal muscle (CO) [Durant, Nguyen & Katz], **61:** 784

calcium ion blockers
nifedipine, in study of calcium entry blockers (RA) [Reves, Kissin, Lell & Tosone], **57:** 504

electrolyte(s)
balance
maintenance of, in familial true hyperkalemia (CR) [Naidu, Steg & MacEwen], **56:** 226

fluoride
assays for, in study of halothane inhibition of enflurane metabolism in Fischer 344 rats [Fish & Rice], **59:** 417
in isoniazid-induced enflurane defluorination in humans (OA) [Mazze, Woodruff & Heerdt], **57:** 5
levels
after administration of enflurane and gentamicin, in Fischer 344 rats with chronic renal impairment (OA) [Fish, Sievenpiper, Rice, Wharton & Mazze], **53:** 481
in halothane hepatotoxicity in phenobarbital-hypoxia and triiodothyronine model (OA) [Uetrecht, Wood, Phythyon & Wood], **59:** 196
measurement of, following halothane anesthesia in obese and nonobese patients (OA) [Bentley, Vaughan, Gandolfi & Cork], **57:** 94
renal effects of, in patients with abnormal renal function (CR) [Mazze, Sievenpiper & Stevenson], **60:** 161
renal excretion of, and plasma levels of, during and after enflurane anesthesia are dependent on urinary pH (OA) [Jarnberg, Ekstrand & Irestedt], **54:** 48

hydrogen
averaging acidity values and (CO) [Tomlin], **53:** 86
concentration, simple way to convert *p*H to (CO) [Leon-Ruiz], **59:** 155
values
averaging *p*H vs., an irrelevant debate (CO) [Grogono], **53:** 85

phosphate
hyperphosphatemia
enema-induced, leading to cardiac arrest during induction of anesthesia in outpatient surgery (CR) [Reedy & Zwiren], **59:** 588

potassium
and acute hyperkalemia in halothane-anesthetized dogs, effects of verapamil on (OA) [Nugent, Tinker & Moyer], **60:** 435
change in serum levels of, following spinal cord transection in rat (OA) [Carter, Sokoll & Gergis], **55:** 542
content of nerve core, and role of glucose or potassium lack in nerve block (LR) [Fink], **55:** 172
depletion, chronic, and sensitivity to tubocurarine (OA) [Waud, Mookerjee & Waud], **57:** 111

and differential effects of hypoosmotic hyponatric swelling on A and C fibers [Schimek, Sumi & Fink], **60:** 198

excessive

modification of effects of bupivacaine and lidocaine on AV conduction by, in isolated rat heart (OA) [Komai & Rusy], **55:** 281

extracellular

increase in, in brain during circulatory arrest: effects of hyperthermia, lidocaine, and thiopental (OA) [Astrup, Skovsted, Gjerris & Sørensen], **55:** 256

in familiar true hyperkalemia (CR) [Naidu, Steg & MacEwen], **56:** 226

and H^+ activities, in cerebral cortical extracellular fluid, during hypotension in cats (OA) [Morris, Heuser, McDowall, Hashiba & Myers], **59:** 10

hyperkalemia

acute, in halothane-anesthesized dogs, effects of verapamil on (OA) [Nugent, Tinker & Moyer], **60:** 435

magnesium sulfate in prevention of succinylcholine-induced fasciculations in toxemic parturients (CR) [DeVore & Asrani], **52:** 76

succinylcholine-induced, in patients with ruptured cerebral aneurysms (CR) [Iwatsuki, Kuroda, Amaha & Iwatsuki], **53:** 64

increase in, following succinylcholine in dogs with beta blockade (OA) [McCammon & Stoelting], **61:** 723

influence of, on cerebral and cardiac toxicity of bupivacaine and lidocaine (OA) [Avery, Redon, Schaenzer & Rusy], **61:** 134

levels following transfusion of frozen erythrocytes (CR) [Rao, Mathru, Salem & El-Etr], **52:** 170

loss, and paradoxical preservation of neural conduction by lidocaine (OA) [Fink], **57:** 167

measurements

comparison of methods of blood withdrawal and sample preparation for (LR) [Hill, Nahrwold, Noonan & Northrop], **53:** 60

plasma, continuous intravascular monitoring of epinephrine-induced changes in (OA) [Lim, Linton & Band], **57:** 272

sodium

content of nerve core, and role of glucose or potassium lack in nerve block (LR) [Fink], **55:** 172

and differential effects of hypoosmotic hyponatric swelling on A and C fibers (OA) [Schimek, Sumi & Fink], **60:** 198

loss, and paradoxical preservation of neural conduction by lidocaine (OA) [Fink], **57:** 167

Ion-selective electrode, *See under* Measurement techniques

Irradiation

high-dose total body, in children, anesthesia for (CR) [Lo, Buckley, Kim & Lopez], **61:** 101

Ischemia, *See under* Brain; Heart

myocardial, *See under* Complications

Isoflurane, *See under* Anesthetics, volatile

Isoniazid, *See under* Pharmacology

Isoproterenol, *See under* Heart; Sympathetic nervous system, sympathomimetic agents

Isotachophoresis, *See under* Measurement techniques

J

Jackson-Rees circuit, *See under* Anesthesia, pediatric; Equipment circuits

James, F. M., III, and Wheeler, A. S. (eds.)

Obstetric Anesthesia: The Complicated Patient (BR), **57:** 433

Jehovah's Witnesses, *See under* Organizations

Jugular vein, *See under* Veins

Jugular vein thrombosis, *See under* Complications

J-wire, *See under* Equipment

K

Kacmarek, R. M., Dimas, S., and Mack, C. W.

The Essentials of Respiratory Therapy (BR), **52:** 198

Kaplan, J. A. (ed.)

Thoracic Anesthesia (BR), **59:** 170

Kaposi's sarcoma, *See under* Cancer

Katz, J., Benumof, J., and Kadis, L. B.

Anesthesia and Uncommon Diseases (BR), **57:** 72

Katzung, B. G. (ed.)

Basic and Clinical Pharmacology (BR), **60:** 268

Kawasaki disease, *See under* Complications

Ketamine, *See under* Anesthetics, intravenous; Pharmacodynamics; Pharmacokinetics

Kharkevich, D. A. (ed.)

Pharmacology of Ganglionic Transmission (BR), **53:** 438

Kidney

anephric patients

hemodialysis as treatment for prolonged neuromuscular blockade in (CO) [Lavine & Hindin], **59:** 264

anuria

in dogs, increased resistance to nitroprusside-induced cyanide toxicity in (OA) [Tinker & Michenfelder], **52:** 40

blood flow

and cardiac output, morphine effects on, in conscious dogs (OA) [Priano & Vatner], **55:** 236

during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Steen & Milde], **58:** 18

and diuretic properties of dopamine in patients after open-heart operation (OA) [Hilberman, Stinson, Derby, Spencer, Miller, Oyer & Myers], **61:** 489

dopamine as influence on (EV) [Miller], **61:** 487

effects of infrarenal aortic cross-clamping on, in humans (OA) [Gamulin, Forster, Morel, Simonet, Aymon & Favre], **61:** 394

effects of midazolam and thiopental on, in humans (OA) [Lebowitz, Cote, Daniels & Bonventre], **59:** 381

positive end-expiratory pressure (PEEP) and (CO) [Priebe & Hedley-Whyte], **57:** 144

following sodium nitroprusside in postoperative cardiac surgical patients (OA) [Maseda, Hilberman, Derby, Spencer, Stinson & Myers], **54:** 284

and systemic hemodynamics and oxygen utilization in dog, effects of sodium nitroprusside on (OA) [Fan, Kim, Simchon, Chen, Schuessler & Chien], **53:** 113

carcinoma

massive intraoperative pulmonary tumor embolus from (CR) [Milne, Cervenko, Morales & Salerno], **54:** 253

disease

massive intraoperative pulmonary tumor embolus from (CR) [Milne, Cervenko, Morales & Salerno], **54:** 253

diuresis

and diuretic properties of dopamine in patients after open-heart operation (OA) [Hilberman, Maseda, Stinson, Derby, Spencer, Miller, Oyer & Myers], **61:** 489

dopamine as influence on (EV) [Miller], **61:** 487

paradoxical, in some neurosurgical patients under balanced anesthesia (CR) [Mehta, Gergis & Sokoll], **59:** 595

perioperative, and ICP (CO) [Bagshaw, Smith, Bloom, Mitchell & Young], **61:** 107

diuretics
mannitol
effect of on urinary excretion (OA) [Matteo, Nishitateno, Pua & Spector], **52:** 335
failure
chronic
in Fischer 344 rats, and renal function after administration of enflurane & gentamicin (OA) [Fish, Sievenpiper, Rice, Wharton & Mazze], **53:** 481
in increased resistance to nitroprusside-induced cyanide toxicity in anuric dogs (OA) [Tinker & Michenfelder], **52:** 40
liver function and anesthetic metabolism in rats with (OA) [Rice, Sievenpiper & Mazze], **60:** 418
pharmacokinetics and pharmacodynamics of metocurine in humans with and without (OA) [Brotherton & Matteo], **55:** 273
pharmacokinetics of midazolam in (OA) [Vink, Reves, Greenblatt, Abernethy & Smith], **59:** 390
prolonged effect of succinylcholine after neostigmine and pyridostigmine in (CR) [Bishop & Hornbein], **58:** 384
renal effects of enflurane and halothane in patients with (CR) [Mazze, Sievenpiper & Stevenson], **60:** 161
Fanconi syndrome
and anesthesia (CR) [Jeol & Rosales], **55:** 455
filtration
effects of infrarenal aortic cross-clamping on, in humans (OA) [Gamulin, Forster, Morel, Simonet, Aymon & Favre], **61:** 394
glomerular
in response to continuous positive-pressure ventilation in dog, sinoaortic baroreceptors and (OA) [Fewell & Bond], **52:** 408
function
and antidiuretic hormone excretion during mechanical ventilation and weaning in man (OA) [Hemmer, Viquerat, Suter & Vallotton], **52:** 395
changes in, respiratory support and (RA) [Berry], **55:** 655
deuterated methoxyflurane anesthesia and, in Fischer 344 rats (LR) [Baden, Rice & Mazze], **56:** 203
and diuretic properties of dopamine in patients after open-heart operation (OA) [Hilberman, Maseda, Stinson, Derby, Spencer, Miller, Oyer & Myers], **61:** 489
dopamine as influence on (EV) [Miller], **61:** 487
effect of long-term controlled mechanical ventilation with positive end-expiratory pressure on, in dog (OA) [Berry, Geer, Marshall, Wu, Zbuzek & Marshall], **61:** 406
effect of PEEP ventilation on (OA) [Annat, Viale, Xuan, Aissa, Benzoni, Vincent, Gharib & Motin], **58:** 136
effects of midazolam and thiopental on, in humans (OA) [Lebowitz, Cote, Daniels & Bonventre], **59:** 381
fluoride clearance, and plasma fluoride levels during and after enflurane anesthesia are dependent on urinary *p*H (OA) [Järnberg, Ekstrand & Irestedt], **54:** 48
in isoniazid-induced enflurane defluorination in humans [Mazze, Woodruff & Heerdt], **57:** 5
positive end-expiratory pressure (PEEP) and (CO) [Priebe & Hedley-Whyte], **57:** 144
following sodium nitroprusside in postoperative cardiac surgical patients (OA) [Maseda, Hilberman, Derby, Spencer, Stinson & Myers], **54:** 284
hemodialysis
as treatment for prolonged neuromuscular blockade in anephric patients (CO) [Lavine & Hindin], **59:** 264
metabolism
during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Steen & Milde], **58:** 18
nephrotoxicity
in isoniazid-induced enflurane defluorination in humans (OA) [Mazze, Woodruff & Heerdt], **57:** 5
and plasma fluoride levels during and after enflurane anesthesia are dependent on urinary *p*H (OA) [Järnberg, Ekstrand & Irestedt], **54:** 48
oliguria
in dogs, increased resistance to nitroprusside-induced cyanide toxicity in (OA) [Tinker & Michenfelder], **52:** 40
oxygen consumption
during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Steen & Milde], **58:** 18
renal failure
pharmacokinetics and pharmacodynamics of atracurium in patients with and without (OA) [Fahey, Rupp, Fisher, Miller, Sharma, Canfell, Castagnoli & Hennis], **61:** 699
toxicity
assessment of, in Fischer 344 rats with chronic renal impairment, after administration of enflurane and gentamicin (OA) [Fish, Sievenpiper, Rice, Wharton & Mazze], **53:** 481
study of, in enflurane and halothane in patients with abnormal renal function (CR) [Mazze, Sievenpiper & Stevenson], **60:** 161
transplantation
prolonged effect of succinylcholine after neostigmine and pyridostigmine in (CR) [Bishop & Hornbein], **58:** 384
urine
flow
in response to continuous positive-pressure ventilation in dog, sinoaortic baroreceptors and (OA) [Fewell & Bond], **52:** 408
fluoride excretion
and plasma fluoride levels during and after enflurane anesthesia are dependent on urinary *p*H (OA) [Järnberg, Ekstrand & Irestedt], **54:** 48
Kimmich, H. P. (ed.)
Monitoring of Vital Parameters During Extracorporeal Circulation (BR), **57:** 559
Kinetics, *See under* Pharmacokinetics
Kitahata, L. M., and Collins, J. G. (eds.)
Narcotic Analgesics in Anesthesiology (BR), **57:** 254

L

Labels, *See under* Equipment
Labor, *See under* Anesthesia, obstetric; Pregnancy
Labor suite, *See under* Operating rooms
Lactate, *See under* Brain; Hypoxia; Metabolism; Muscle, skeletal
Lactate production, *See under* Cells
Lactic acidemia, *See under* Metabolism; Shock
Laminae of dorsal horn, *See under* Spinal cord
Laparoscopy, *See under* Surgery
Laryngoscope, *See under* Anesthetic techniques; Equipment; Intubation; Larynx; Surgery
Laryngospasm, *See under* Complications
Laryngo-tracheal surgery, *See under* Surgery
Larynx
anatomy
abduction of vocal cords for (CR) [Fink], **52:** 95
cricoid
difficult pediatric endotracheal intubation in: new approach to retrograde technique (CR) [Borland, Swan & Leff], **55:** 577
laryngoscopy
high-frequency jet ventilation (CR) [Babinski, Smith & Klain], **52:** 178

muscles
precurarization inhibits maximal ventilatory effort (CR) [Bruce, Downs, Kulkarni & Caplan], **61:** 618
responses of
during respiratory arrest produced by hypoxia withdrawal, thiopentone, ketamine, and lidocaine in cats (OA) [Nishino, Yonezawa & Honda], **56:** 280
spasm
modification of
in response to changes in Pa_{CO_2} and Pa_{O_2} in cat (OA) [Nishino, Yonezawa & Honda], **55:** 286
pulmonary edema following, in adults (CO) [Melnick], **60:** 516
pulmonary edema secondary to, in children (CR) [Lee & Downes], **59:** 347
surgery of
beware of sharp edges of endotracheal tubes during (CO) [Skaredoff & Poppers], **58:** 595
beware of sharp edges of endotracheal tubes during (CO) [Weibel & Mathews], **58:** 595
tear
with upper airway laser surgery (CR) [Ganfield & Chapin], **56:** 398
vocal cords
abduction of (CO) [Fink], **52:** 95
web
as cause of difficult endotracheal intubation (CR) [Capistrano-Baruh, Wenig, Steinberg, Stegnjajic & Baruh], **57:** 123
Laser, *See under* Equipment; Surgery
Lavage, pulmonary, *See under* Lung(s)
LD50, *See under* Anesthetics, local; Heart, arrhythmias; Potency, anesthetic
Lear, M. W.
Heartsounds (BR), **56:** 77
Lebowitz, P. W., Newburg, L. A., and Gillette, M. T. (eds.)
Clinical Anesthesia Procedures of the Massachusetts General Hospital (BR), **61:** 118
Ledingham, I. M., and Hanning, C. D. (eds.)
Recent Advances in Critical Care Medicine (BR), **61:** 641
Lefer, A. M., Saba, T. M., and Mela, L. M.
Advances in Shock Research (BR), **52:** 197
Leigh's syndrome
anesthesia for child with (CR) [Ward], **55:** 80
Leukocytes, *See under* Blood
Leukotrienes, *See under* Mediators; Toxicity
Lidocaine, *See under* Anesthetic techniques, spinal; Anesthetics, local; Heart, arrhythmias
Lightwand, *See under* Equipment
Limbic system, *See under* Brain
Lipid(s), *See under* Metabolism; Solubility
Lipid bilayers, *See under* Membrane
Lipid peroxidation, *See under* Membrane
Lipid solubility theory, *See under* Theories of Anesthesia
Liposomes, *See under* Membrane
Lipton, S.
Relief of Pain in Clinical Practice (BR), **53:** 532
Lithotomy position, *See under* Position
Liver
blood flow
during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Steen & Milde], **58:** 18
hypertension following nitroprusside (CO) [Gelman & Patel], **53:** 90
hypotension may have profound effect on (CO) [Bagshaw], **59:** 168
during isoflurane and halothane anesthesia (OA) [Gelman, Fowler & Smith], **61:** 726
and systemic hemodynamics and oxygen utilization in dog, effects of sodium nitroprusside on (OA) [Fan, Kim, Simchou, Chen, Schuessler & Chien], **53:** 113
cirrhosis
thiopental pharmacokinetics in patients with (OA) [Pandele, Chaux, Salvadori, Farinotti & Duvaldestin], **59:** 123
enzymatic activity
in ethanol-treated rats, enflurane, isoflurane, and methoxyflurane metabolism and (OA) [Van Dyke], **58:** 221
enzymes
methionine synthetase, inactivation of, by nitrous oxide, in mice (OA) [Koblin, Watson, Deady, Stokstad & Eger], **53:** 318
function
and anesthetic metabolism in rats with chronic renal impairment (OA) [Rice, Sievenpiper & Mazze], **60:** 418
effects of, on sulfobromophthalein disposition in rats (OA) [Hurwitz & Fischer], **60:** 537
in ethanol-treated rats, enflurane, isoflurane, and methoxyflurane metabolism and (OA) [Van Dyke], **58:** 221
in ethanol-treated rats, enflurane, isoflurane, and methoxyflurane metabolism and (OA) [Van Dyke], **58:** 221
during isoflurane and halothane anesthesia (OA) [Gelman, Fowler & Smith], **61:** 726
hepatitis
halothane-induced
editorial concerning (CO) [Blogg], **56:** 407
editorial concerning (CO) [Brown], **56:** 408
hospital-associated, and anesthesiologist (MI) [duMoulin & Hedley-Whyte], **59:** 51
hepatitis B
markers in pediatric anesthesia personnel (CO) [Berry, Isaacson & Kane], **61:** 622
markers in pediatric anesthesia personnel (CO) [Friesen], **61:** 622
prevalence of viral markers of, in anesthesia personnel (OA) [Berry, Isaacson, Hunt & Kane], **60:** 6
vaccination of high-risk hospital personnel (EV) [Oxman], **60:** 1
hepatotoxicity
anesthesia-induced (CO) [Gelman], **59:** 487
of enflurane? (EV) [Dykes], **61:** 235
and free radical formation *in vivo* due to halothane anesthesia (OA) [Plummer, Beckwith, Bastin, Adams, Cousins & Hall], **57:** 160
following halothane, enflurane, and isoflurane anesthesia in rats (OA) [Harper, Collins, Johnson, Eger & Biava], **56:** 14
halothane, etiology of (CO) [Strunin, Harrison & Davies], **58:** 391
halothane-associated, involvement of endotoxin in (OA) [Lind, Gandolfi, Sipes & Brown], **61:** 544
halothane-induced
effects of hypersensitivity to halothane metabolite on (LR) [Ford, Coyle & Harrington], **60:** 141
in triiodothyronine-pretreated rats (OA) [Wood, Berman, Harbison, Hoyle, Phythyon & Wood], **52:** 470
halothane-related, contrasting effects on, in phenobarbital-hypoxia and triiodothyronine model (OA) [Uetrecht, Wood, Phythyon & Wood], **59:** 196
isoflurane and enflurane-induced, in triiodothyronine pretreatment, 1 (OA) [Berman, Kuhnert, Phythyon & Holaday], **58:** 1
mechanism of, in hyperthyroid rats (CO) [Berman, Kuhnert, Phythyon & Holaday], **59:** 601
mechanism of, in hyperthyroid rats (CO) [Carmichael], **59:** 601
ischemic damage to, following profound arterial hypotension (OA)

[Dong, Bledsoe, Eng, Heavner, Shaw, Hornbein & Anderson], **58:** 61

metabolism
during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Steen & Milde], **58:** 18
in dog during controlled hypotension with adenosine (OA) [Lagerkranser, Irestedt, Sollevi & Andreen], **60:** 547
of enflurane in Fischer 344 rats, halothane inhibits (OA) [Fish & Rice], **59:** 417

halothane
in triiodothyronine-pretreated rats (OA) [Wood, Berman, Harbison, Hoyle, Phythyon & Wood], **52:** 470
-related, contrasting effects on, in phenobarbital and triiodothyronine model (OA) [Uetrecht, Wood, Phythyon & Wood], **59:** 196

microsomes
in halothane-induced hepatic necrosis in triiodothyronine-pretreated rats (OA) [Wood, Berman, Harbison, Hoyle, Phythyon & Wood], **52:** 470

oxygen

consumption
during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Steen & Milde], **58:** 18

sulfobromophthalein
disposition in rats, effects of morphine and respiratory depression on (OA) [Hurwitz & Fischer], **60:** 537

toxicity
and binding of halothane free radicals to fatty acids following UV radiation (OA) [Bösterling, Trevor & Trudell], **56:** 380

Lobar torsion, *See under* Lung(s), damage

Local anesthetics, *See under* Anesthetic techniques, peridural, regional, spinal; Anesthetics, local

Lofentanyl, *See under* Analgesics, narcotic

Loh, H. H. and Ross, D. H. (eds.)
Neurochemical Mechanisms of Opiates and Endorphins (BR), **52:** 530

Lorazepam, *See under* Anticonvulsants; Ataractics; Hypnotics, benzodiazepines

Lumbar anesthesia, *See under* Anesthetic techniques, peridural; spinal

Lumbar sympathetic anesthesia, *See under* Anesthetic techniques, regional

Lung volume, *See under* Lung(s)

Lung(s)

acute respiratory failure
time course and mechanisms of lung-volume increase with PEEP in (OA) [Katz, Ozanne, Zinn & Fairley], **53:** 9

airway closure
contribution of, to impaired oxygenation during anesthesia (OA) [Bergman & Tien], **59:** 395

airway pressure
in high-frequency jet ventilation in postoperative respiratory failure (OA) [Rouby, Fusciardi, Bourgain & Viars], **59:** 281
mean, and hemodynamic effects (CO) [Muneyuki & Konishi], **60:** 75
mean, and hemodynamic effects (CO) [Otto, Quan, Calkins, Waterson & Hameroff], **60:** 74

alveolar proteinosis
new methods for performance of unilateral lung lavage in (CR) [Spragg, Benumof & Alfery], **57:** 535
one-lung lavage in (CO) [Spalitta & Marino], **59:** 166

alveolar-capillary membrane
diffusing capacity for oxygen, changes in, produced by halothane (OA) [Stene, Laravuso & Burns], **56:** 97

aspiration
effectiveness of Bicitra® in prevention of (CR) [Gibbs & Banner], **61:** 97
pneumonia, postpartum perioperative risk of (CR) [James, Gibbs & Banner], **61:** 756

prevention of
and effect of domperidone on lower esophageal sphincter tone in late pregnancy (OA) [Morton, Duke & Ong], **52:** 221
management of tracheal atresia with tracheoesophageal fistula in (CR) [Alfery, Ward, Plumer & Lynch], **53:** 242

asthma
aminophylline and anesthesia in (CR) [Stirt & Sternick], **57:** 252
and presumed susceptibility to malignant hyperthermia, anesthetic management of child with (CR) [Vaughn, Casson & Hirshman], **58:** 285

atelectasis

assessment of
during improvement of oxygenation during one-lung ventilation in dogs (OA) [Alfery, Benumof & Trousdale], **55:** 381
during unilateral lung lavage: blood flow manipulation by ipsilateral pulmonary artery balloon inflation in dogs (OA) [Alfery, Zamost & Benumof], **55:** 376
in dog, pulmonary blood pressure and flow during (OA) [Glasser, Domino, Lindgren, Parcella, Marshall & Marshall], **58:** 225
and intermittent hypoxia, another point of view on (EV) [Marshall], **55:** 200
in potentiation of lobar hypoxic pulmonary vasoconstriction by intermittent hypoxia in dogs (OA) [Pirlo, Benumof & Trousdale], **55:** 226
in sustained hypoxic pulmonary vasoconstriction in dog (OA) [Domino, Chen, Alexander, Williams, Marshall & Marshall], **60:** 562

barotrauma
in improper use of selector shunt valves (CO) [Deas], **56:** 239
prevention of (CO) [Herr & Liban], **60:** 260

blood flow
in acute pulmonary embolism during therapeutic arterial embolization (CR) [Capan, Lardizabal, Sinha, Ashok, Berenstein & Turndorf], **58:** 569

assessment of
during improvement of oxygenation during one-lung ventilation in dogs (OA) [Alfery, Benumof & Trousdale], **55:** 381
during unilateral lung lavage: blood flow manipulation by ipsilateral pulmonary artery balloon inflation in dogs (OA) [Alfery, Zamost & Benumof], **55:** 376
and blood pressure during atelectasis in dog (OA) [Glaser, Domino, Lindgren, Parcella, Marshall & Marshall], **58:** 225
and changes in lung membrane diffusing capacity for oxygen produced by halothane (OA) [Stene, Laravuso & Burns], **56:** 97
combined effects of nitroprusside and propranolol on (OA) [Miller, Benumof & Trousdale], **57:** 267
as dependent upon initial state of vasculature (CO) [Bagshaw & Cox], **58:** 205
during differential ventilation with selective PEEP (OA) [Hedenstierna, Baehrendtz, Klingstedt, Santesson, Söderborg, Dahlborn & Bindslev], **61:** 369
in hypoxemia following pulmonary embolism (OA) [Fisher, Noble & Kay], **53:** 204
in hypoxia in rat lungs *in vitro*, effects of halothane, enflurane, and isoflurane on (OA) [Marshall, Lindgren & Marshall], **60:** 304
and intermittent hypoxia, another point of view on (EV) [Marshall], **55:** 200

in intermittent hypoxia (OA) [Benumof], **58:** 399
and mixed venous O_2 tension, effects of, on gas exchange (OA) [Bishop & Cheney], **58:** 130
in nitroglycerin and nitroprusside in pulmonary hypertension (OA) [Pearl, Rosenthal & Ashton], **58:** 514
in potentiation of lobar hypoxic pulmonary vasoconstriction by intermittent hypoxia in dogs (OA) [Pirlo, Benumof & Trousdale], **55:** 226
and pulmonary gas exchange effects of nitroglycerin in canine edematous lungs (OA) [Colley, Cheney & Hlastala], **55:** 114
in sustained hypoxic pulmonary vasoconstriction in dog (OA) [Domino, Chen, Alexander, Williams, Marshall & Marshall], **60:** 562
and venous air embolism, aminophylline, and volatile agents (CO) [Drummond], **60:** 389

bronchospasm
inhalational anesthesia and histamine release during bronchospasm (OA) [Hermens, Edelstein, Hanifin, Woodward & Hirshman], **61:** 69

bronchus
bronchoconstriction
allergic, do lidocaine aerosols reduce? (OA) [Downes & Hirshman], **53**
***S393**
local anesthetics as bronchodilator aerosols and (OA) [Downes, Hirshman & Leon], **58:** 216
postoperative infection of, sterile anesthesia breathing circuits do not prevent (OS) [Feeley, Hamilton, Xavier, Moyers & Eger], **53:** 369

burn
in laser-induced endotracheal tube fire (CR) [Cozine, Rosenbaum, Askanazi & Rosenbaum], **55:** 583

closing capacity
contribution of, to impaired oxygenation during anesthesia (OA) [Bergman & Tien], **59:** 395
in normal subjects following endotracheal intubation (OA) [Gal], **52:** 27

closing volume
contribution of, to impaired oxygenation during anesthesia (OA) [Bergman & Tein], **59:** 395

compliance
in alternating lung ventilation in dogs (OA) [Muneyuki, Konishi, Horiguchi, Tsujimoto, Saito, Sakakura & Konishi], **58:** 353
assessment of
in study of mechanism of action of inhalational anesthesia on airways (OA) [Hirshman, Edelstein, Peetz, Wayne & Downes], **56:** 107
during endobronchial anesthesia, effect of tidal volume and PEEP on (OA) [Katz, Laverne, Fairley & Thomas], **56:** 164
in high-frequency jet ventilation in postoperative respiratory failure (OA) [Rouby, Fusciardi, Bourgain & Viars], **59:** 281
and inhalational anesthesia and histamine release during bronchospasm (OA) [Hermens, Edelstein, Hanifin, Woodward & Hirshman], **61:** 69
in normal subjects following endotracheal intubation (OA) [Gal], **52:** 27
in one-lung ventilation: which lung should be PEEPed? (EV) [Benumof], **56:** 161
in response to local anesthetics as bronchodilator aerosols (OA) [Downes, Hirshman & Leon], **58:** 216
during spontaneous positive-pressure ventilation: advantage of CPAP over EPEP (OA) [Schlobohm, Falltrick Quan & Katz], **55:** 416
time course and mechanisms of, with PEEP, in acute pulmonary failure (OA) [Katz, Ozanne, Zinn & Fairley], **53:** 9
and vital capacity, relationship between, during partial curarization in awake subjects (OA) [Gal & Goldberg], **53:** 141

damage
lobar torsion
anesthesia for patient with (CR) [Moore, Forsythe, Niguidula, McNicholas & Clark], **57:** 129

diseases
unilateral insufficiency
treatment of, by selective administration of continuous positive airway pressure through a double-lumen tube (CR) [Venus, Pratap & Op'Tholt], **53:** 74

edema
canine
pulmonary gas exchange effects of nitroglycerin in (OA) [Colley, Cheney & Hlastala], **55:** 114
and effects of pulmonary blood flow and mixed venous O_2 tension on gas exchange (OA) [Bishop & Cheney], **58:** 130
with fluid administration during CPPV after pulmonary microembolization (OA) [Noble & Kay], **61:** 730
low-pressure, canine, effects of hydralazine on cardiopulmonary function in (CO) [Prewitt & Ghignone], **60:** 519
low-pressure, canine, effects of hydralazine on cardiopulmonary function in (CO) [Prough & Johnson], **60:** 518
low-pressure, in dogs, effects of hydralazine on cardiopulmonary function in (OA) [Ghignone, Girling & Prewitt], **59:** 187
induced
for measurement of extravascular lung water in dogs (LR) [Mihm, Feeley, Rosenthal & Lewis], **57:** 116
noncardiac
following laryngeal obstruction (CR) [Weissman, Damask & Yang], **60:** 163
reexpansion, during emergence from general anesthesia (CR) [Milne, Spence, Lynn & Sleeman], **59:** 244

Eisenmenger's syndrome
pulmonary artery catheters in (CO) [Noble, Devitt & Byrick], **58:** 589
pulmonary artery catheters in (CO) [Robinson], **58:** 588

embolus
tumor
massive intraoperative, from renal cell carcinoma (CR) [Milne, Cervenko, Morales & Salerno], **53:** 253

expired gases
mixed
transients, as noninvasive index of effects of PEEP (CR) [Zinne, Ozanne & Fairley], **52:** 261

function
anesthesia and (EV) [Nunn], **52:** 107
and blood flow, altered, following induction of inhalational anesthesia (OA) [Dueck, Young, Clausen & Wagner], **52:** 113
and canine $V_A/\dot{Q}$ distribution responses to inhalation anesthesia and mechanical ventilation (OA) [Dueck, Rathbun & Harrison], **55:** 127
and cardiovascular function, in scoliosis, and principles of anesthetic management (RV) [Kafer], **52:** 339
in changes in venous admixture with alterations of inspired oxygen concentration (OA) [Quan, Kronberg, Schlobohm, Feeley, Don & Lister], **52:** 477
during endobronchial anesthesia, effect of tidal volume and PEEP on (OA) [Katz, Laverne, Fairley & Thomas], **56:** 164
massive weight loss will improve, in selected patients (CO) [Sugerman & Fairman], **55:** 604
and normal cough performance, effects of endotracheal intubation on (OA) [Gal], **52:** 324
in normal subjects following endotracheal intubation (OA) [Gal], **52:** 27

pulmonary edema
workshop (SM) [Marshall], **53:** 88
and reduction in REEP with induction of anesthesia and neuromuscular paralysis (OA) [Bergman], **57:** 14
tests
effect of massive weight loss on arterial oxygenation and (OA) [Vaughan, Cork & Hollander], **53:** 325
unilateral
assessment of (MI) [Baier], **52:** 240
and vital capacity relationship between, during partial curarization in awake subjects (OA) [Gal & Goldberg], **53:** 141
functional capacity
in reduction of REEP with induction of anesthesia and neuromuscular paralysis (OA) [Bergman], **57:** 14
functional residual capacity
assessment of
during spontaneous positive-pressure ventilation: advantage of CPAP over EPAP (OA) [Schlobohm, Falltrick, Quan & Katz], **55:** 416
measurement of
during anesthesia and muscle paralysis (LR) [Hedenstierna, Järnberg & Gottlieb], **55:** 439
during extubation from ambient or expiratory positive airway pressure in adults (OA) [Quan, Falltrick & Schlobohm], **55:** 53
during mechanical ventilation by simultaneous exchange of two insoluble gases (LR) [Ozanne, Zinn & Fairley], **53:** 413
time course and mechanisms of, with PEEP, in acute pulmonary failure (OA) [Katz, Ozanne, Zinn & Fairley], **53:** 9
gas exchange
in canine low-pressure pulmonary edema, effects of hydralazine on (CO) [Prewitt & Ghignone], **60:** 519
in canine low-pressure pulmonary edema, effects of hydralazine on (CO) [Prough & Johnston], **60:** 518
and canine $V_A/\dot{Q}$ distribution responses to inhalation anesthesia and mechanical ventilation (OA) [Dueck, Rathbun & Harrison], **55:** 127
effect of sodium nitroprusside on, in canine oleic acid pulmonary edema (OA) [Prewitt & Wood], **55:** 537
effects of hydralazine on, in canine low-pressure pulmonary edema (OA) [Ghignone, Girling & Prewitt], **59:** 187
hypertension
misdiagnosis of, in migration of pediatric pulmonary artery catheters (CR) [Moore, McNicholas, Gallagher & Niguidula], **58:** 102
hypoxic pulmonary vasoconstriction
combined effects of nitroprusside and propranolol on (OA) [Miller, Benumof & Trousdale], **57:** 267
influence of mixed venous oxygen tension ($P\bar{v}_{O_2}$) on blood flow in (OA) [Domino, Wetstein, Glasser, Lindgren, Marshall, Harken & Marshall], **59:** 428
following pulmonary embolism (OA) [Fisher, Noble & Kay], **53:** 204
as result of impairment of pulmonary gas exchange by nitroglycerin in canine edematous lungs (OA) [Colley, Cheney & Hlastala], **55:** 114
sustained in dog, time course and responses of (OA) [Domino, Chen, Alexander, Williams, Marshall & Marshall], **60:** 562
and venous air embolism, aminophylline, and volatile agents (CO) [Drummond], **60:** 389
intrapericardial pneumonectomy
management of cardiac herniation after (CR) [Cassorla & Katz], **60:** 362
intravascular pressures
in alternating lung ventilation in dogs (OA) [Muneyuki, Konishi, Horiguchi, Tsujimoto, Saito, Sakakura & Konishi], **58:** 353
elevated, resulting from upper respiratory obstruction in obese patient (CR) [Teeple & Ghia], **59:** 66
lavage
bronchopulmonary (CO) [Shulman, Brebner, Cain & Sandler], **59:** 607
one-lung, more on (CO) [Spalitta & Marino], **59:** 166
unilateral
blood flow manipulation by ipsilateral pulmonary artery balloon inflation in dogs (OA) [Alfery, Zamost & Benumof], **55:** 376
new methods for performance of (CR) [Spragg, Benumof & Alfery], **57:** 535
lung volume
response to intravenous versus inhalation anesthesia in sheep (OA) [Dueck, Rathbun & Greenburg], **61:** 55
lymph flow
and pure oxygen breathing (OA) [Erdmann, Huttemeier, Landolt & Zapol], **58:** 153
macrophages
microbicidal activity of, halothane inhibits (LR) [Welch], **58:** 456
mechanics
in reduction of REEP with induction of anesthesia and neuromuscular paralysis (OA) [Bergman], **57:** 14
metabolism
of proteins
additive effects of pentobarbital and halothane to inhibit (OA) [Rannels, Roake & Watkins], **57:** 87
microemboli
lung water increases with fluid administration during CPPV after (OA) [Noble & Kay], **61:** 703
obstructive pulmonary disease
chronic
ventilation after thiopental and midazolam in (OA) [Gross, Zebrowski, Carel, Gardner & Smith], **58:** 540
hypotension secondary to, treated with expiratory flow retard (CR) [Weng, Smith, Graybar & Kirby], **60:** 350
postoperative respiratory failure following intercostal block in (CR) [Cory & Mulroy], **53:** 418
perfusion
in acute bilateral lung disease, differential ventilation and selective positive end-expiratory pressure effects on (OA) [Baehrendtz & Hedenstierna], **61:** 511
anesthesia and (EV) [Nunn], **52:** 107
and blood flow, altered, following induction of inhalational anesthesia (OA) [Dueck, Young, Clausen & Wagner], **52:** 113
and canine $V_A/\dot{Q}$ distribution responses to inhalation anesthesia and mechanical ventilation (OA) [Dueck, Rathbun & Harrison], **55:** 127
pentobarbital and halothane in, to inhibit synthesis of lung proteins (OA) [Rannels, Roake & Watkins], **57:** 87
pleural pressure
measurement of, with esophageal balloon in anesthetized humans (LR) [Higgs, Behrakis, Bevan & Milic-Emili], **59:** 340
pneumonia
canine
effect of unilateral PEEP on gas exchange and pulmonary perfusion (OA) [Light, Mink & Wood], **55:** 251
failure of bacterial filters to reduce incidence of after inhalation anesthesia (OA) [Garibaldi, Britt, Webster & Pace], **53:** 364
induced by diethyl ether, halothane, enflurane, and pentobarbital anesthesia in mice (OA) [Knight, Bedows, Nahrwold, Maassab, Smitka & Busch], **58:** 209

postoperative
sterile anesthesia breathing circuits do not prevent (OA) [Feeley, Hamilton, Xavier, Moyers & Eger], **53:** 369
pulmonary artery
assessment of
during improvement of oxygenation during one-lung ventilation in dogs (OA) [Alfery, Benumof & Trousdale], **55:** 381
diastolic-pulmonary artery occluded pressure gradient, resistance versus (CO) [Hilgenberg], **58:** 484
diastolic-pulmonary artery occluded pressure gradient, resistance versus (CO) [Schulte-Sasse, Hess & Tarrow], **58:** 486
hypoxic constriction of
potentiation of, by intermittent hypoxia in dogs (OA) [Pirlo, Benumof & Trousdale], **55:** 226
initial state of, pulmonary vascular response is dependent upon (OA) [Bagshaw & Cox], **58:** 205
ipsilateral balloon inflation o, in dogs, blood flow manipulation by—unilateral lavage (OA) [Alfery, Zamost & Benumof], **55:** 376
response, intermittent hypoxia increases (OA) [Benumof], **58:** 399
pulmonary edema
following laryngospasm (CO) [Jenkins], **60:** 611
postlaryngospasm, in adults (CO) [Melnick], **60:** 516
pulmonary function
following epidural and systemic morphine (OA) [Shulman, Sandler, Bradley, Young & Brebner], **61:** 569
pulmonary hypertension
severe, intrathecal morphine for relief of labor pain in parturient with (CR) [Abboud, Raya, Noueihed & Daniel], **59:** 477
respiratory distress
intravenous nitroglycerin, methemoglobinemia and, in postoperative cardiac surgical patient (CR) [Zurich, Wagner, Starr, Lytle & Estafanous], **61:** 464
jet-ventilation in
during broncho-fiberscopy in forty-nine infants (CO) [Dalens, Labbé & Haberer], **57:** 551
respiratory distress syndrome
in bleomycin-treated surgical patients, supplemental oxygen does not cause (CR) [LaMantia, Glick & Marshall], **60:** 65
effects of differential ventilation and selective positive end-expiratory pressure on (OA) [Baehrendtz & Hedenstierna], **61:** 511
hemodynamic and gas exchange effects of pancuronium bromide in sedated patients with (CR) [Bishop], **60:** 369
pulmonary blood flow and mixed venous O_2 tension studies in (OA) [Bishop & Cheney], **58:** 130
and restriction of oxygen in bleomycin-treated surgical patients (CO) [Goldiner & Rooney], **61:** 225
and restriction of oxygen in bleomycin-treated surgical patients (CO) [LaMantia, Glick & Marshall], **61:** 226
respiratory failure
nutrition for patients with, glucose vs. fat (OA) [Askanazi, Nordenstrom, Rosenbaum, Elwyn, Hyman, Carpentier & Kinney], **53:** 373
postoperative, high-frequency jet ventilation in (OA) [Rouby, Fusciardi, Bourgan & Viars], **59:** 281
respiratory resistance
and normal cough performance, effects of endotracheal intubation on (OA) [Gal], **52:** 324
in response to local anesthetics as bronchodilator aerosols (OA) [Downes, Hirshman & Leon], **58:** 216
shunting
anesthesia and (EV) [Nunn], **52:** 107
assessment of
during improvement of oxygenation during one-lung ventilation in dogs (OA) [Alfery, Benumof & Trousdale], **55:** 381
during unilateral lung lavage: blood flow manipulation by ipsilateral pulmonary artery balloon inflation in dogs (OA) [Alfery, Zamost & Benumof], **55:** 376
in canine low-pressure pulmonary edema, effects of hydralazine on (CO) [Prewitt & Ghignome], **60:** 519
in canine low-pressure pulmonary edema, effects of hydralazine on (CO) [Prough & Johnston], **60:** 518
and canine $V_A\dot{Q}$ distribution responses to inhalation anesthesia and mechanical ventilation (OA) [Dueck, Rathbun & Harrison], **55:** 127
in changes in venous admixture with alterations of inspired oxygen concentration (OA) [Quan, Kronberg, Schlobohm, Feeley, Don & Lister], **52:** 477
and effect of cardiac output on arterial oxygenation (MI) [Cheney & Colley], **52:** 496
effects of hydralazine on, in canine low-pressure pulmonary edema (OA) [Ghignone, Girling & Prewitt], **59:** 187
effect of sodium nitroprusside on, in canine oleic acid pulmonary edema (OA) [Prewitt & Wood], **55:** 537
during endobronchial anesthesia, effect of tidal volume and PEEP on (OA) [Katz, Laverne, Fairley & Thomas], **56:** 164
and gas exchange
effect of unilateral PEEP on, in canine lobar pneumonia (OA) [Light, Mink & Wood], **55:** 251
and hypoxemia following cardiopulmonary bypass (CR) [Byrick, Kolton, Hart & Forbath], **53:** 172
in hypoxemia following pulmonary embolism (OA) [Fisher, Noble & Kay], **53:** 204
increase in
caused by dopamine infusion, positive end-expiratory pressure (PPP) ventilation suppresses (CO) [Lemaire, Regnier, Simoneau & Harf], **52:** 376
influence of n mixed venous oxygen tension ($P\bar{v}_{O_2}$) on blood flow in (OA) [Domino, Wetstein, Glasser, Lindgren, Marshall, Harken & Marshall], **59:** 428
in intermittent hypoxia, another point of view on (EV) [Marshall], **55:** 200
intrapulmonary
and blood flow, altered, following induction of inhalational anesthesia (OA) [Dueck, Young, Clausen & Wagner], **52:** 113
in one-lung ventilation: which lung should be PEEPed? (EV) [Benumof], **56:** 161
in potentiation of lobar hypoxic pulmonary vasoconstriction by intermittent hypoxia in dogs (OA) [Pirlo, Benumof & Trousdale], **55:** 226
and pulmonary gas exchange effects of nitroglycerin in canine edematous lungs (OA) [Colley, Cheney & Hlastala], **55:** 114
response to intravenous versus inhalation anesthesia in sheep (OA) [Dueck, Rathbun & Greenburg], **61:** 55
studies of
in comparison of ventilatory patterns in treatment of freshwater near-drowning in dogs (OA) [Berquist, Vogelhut, Modell, Sloan & Ruiz], **52:** 142
in sustained hypoxic pulmonary vasoconstriction in dog (OA) [Domino, Chen, Alexander, Williams, Marshall & Marshall], **60:** 562
smoking
and anesthesia: preoperative abstinence and perioperative morbidity (MI) [Pearce & Jones], **61:** 576

preoperative cessation of, and pulmonary complications in coronary artery bypass patients (CR) [Warner, Divertie & Tinker], **60:** 380
thoracic gas volume
and chest-abdomen dimensions during anesthesia and muscle paralysis (OA) [Hedenstierna, Löfström & Lundh], **55:** 499
thoracic volume
measurement of
during anesthesia and muscle paralysis (LR) [Hedenstierna, Järnberg & Gottlieb], **55:** 439
trachea
canine
contractile responses of muscle of, during exposure to fentanyl and morphine (OA) [Toda & Hatano], **53:** 93
model of
endotracheal tube cuff residual volume and lateral wall pressure in (LR) [Tonnesen, Vereen & Arens], **55:** 680
postoperative infection
sterile anesthesia breathing circuits do not prevent (OA) [Feeley, Hamilton, Xavier, Moyers & Eger], **53:** 369
and simple system for transtracheal ventilation (CO) [Gildar], **58:** 106
smooth muscle
differential effects of halothane on (OA) [Korenage, Takeda & Ito], **60:** 309
suctioning
randomized study of drugs for preventing increases in intracranial pressure during (CR) [White, Schlobohm, Pitts & Lindauer], **57:** 242
trachea
vascular permeability
effect of sodium nitroprusside on, in canine oleic acid pulmonary edema (OA) [Prewitt & Wood], **55:** 537
pure oxygen breathing increases (OA) [Erdmann, Huttemeier, Landolt & Zapol], **58:** 153
vascular resistance
acute increase in, in dogs, volume expansion versus norepinephrine in treatment of low cardiac output complicating (OA) [Ghignone, Girling & Prewitt], **60:** 132
altered
in migration of pediatric pulmonary artery catheters (CR) [Moore, McNicholas, Gallagher & Niguidula], **58:** 102
in canine low-pressure pulmonary edema, effects of hydralazine on (CO) [Prewitt & Ghignone], **60:** 519
in canine low-pressure pulmonary edema, effects of hydralazine on (CO) [Prough & Johnston], **60:** 518
combined effects of nitroprusside and propranolol on (OA) [Miller, Benumof & Trousdale], **57:** 267
effect of sodium nitroprusside on, in canine oleic acid pulmonary edema (OA) [Prewitt & Wood], **55:** 537
effects of hydralazine on, in canine low-pressure pulmonary edema (OA) [Ghignone, Girling & Prewitt], **59:** 187
in hypoxia in rat lungs *in vitro*, effects of halothane, enflurane, and isoflurane on (OA) [Marshall, Lindgren & Marshall], **60:** 304
intermittent hypoxia increases (OA) [Benumof], **58:** 399
is dependent upon initial state of vasculature (CO) [Bagshaw & Cox], **58:** 205
normal and high, pulmonary vascular responses to nitrous oxide in patients with (OA) [Schulte-Sasse, Hess & Tarnow], **57:** 9
potentiation of lobar hypoxic pulmonary vasoconstriction by intermittent hypoxia in dogs (OA) [Pirlo, Benumof & Trousdale], **55:** 226
in prosthesis during knee replacement without tourniquet (CR) [Samaii, Elmelik, Goutalier & Viars], **52:** 271
pulmonary artery diastolic-pulmonary artery occluded pressure gradient versus (CO) [Hilgenberg], **58:** 484
pulmonary artery diastolic-pulmonary artery occluded pressure gradient versus (CO) [Schulte-Sasse, Hess & Tarnow], **58:** 485
and venous air embolism, aminophylline, and volatile agents (CO) [Drummond], **60:** 389
vasoconstriction
catastrophic, associated with protamine reversal of heparin (CR) [Lowenstein, Johnston, Lappas, D'Ambra, Schneider, Daggett, Akins & Philbin], **59:** 470
ventilation
high-frequency positive-pressure (HFPPV), in ventilatory insufficiency (EV) [Kirby], **52:** 109
high-frequency positive-pressure, in bronchopleural fistula (CR) [Carlon, Ray, Klain & McCormack], **52:** 160
vital capacity
and respiratory muscle strength, relationship between, during partial curarization in awake subjects (OA) [Gal & Goldberg], **53:** 141
volume
closing
in normal subjects following endotracheal intubation (OA) [Gal], **52:** 27
in reduction of REEP with induction of anesthesia and neuromuscular paralysis (OA) [Bergman], **57:** 14
washout
anesthesia and (EV) [Nunn], **52:** 107
and blood flow, altered, following induction on inhalational anesthesia (OA) [Dueck, Young, Clausen & Wagner], **52:** 113
open-circuit
by simultaneous gas exchange of two insoluble gases, for measurement of functional residual capacity during mechanical ventilation (LR) [Ozanne, Zinn & Fairley], **53:** 413
water
workshop (SM) [Marshall], **53:** 88
Lung volume analysis, *See under* Measurement techniques
Lunn, J. N.
Lecture Notes on Anaesthetics (BR), **53:** 92
Lecture Notes on Anaesthetics (BR), **56:** 416
Lymph, *See under* Blood; *specific organs*
Lymphocytes, *See under* Blood; Immune response

M

MAC, *See under* Potency, anesthetic
Machines, anesthesia, *See under* Equipment
Macrophages, *See under* Lung(s)
Magnesium, *See under* Ions
Malignant hyperthermia, *See under* Hypertension; Hyperthermia, malignant; Hyperthermia; Temperature
Malignant pyrexia, *See under* Hyperthermia, malignant
Mannitol, *See under* Kidney, diuretics; Fluid balance
Manometers, *See under* Equipment
Manpower
anesthesiologists
contributions of, and residents as (SA) [Siker], **57:** 219
learning objectives for, in American Board of Anesthesiology's "Quality Anesthesia Care," comment on (SA) [Dykes], **53:** 237
and quality of care review in anesthesia (SM) [Orkin & Hirsh], **54:** 93

and ASA preceptorship: success in rural setting (CO) [Petty], **60:** 78
nurse anesthetists
and quality of care review in anesthesia (SM) [Orkin & Hirsh], **54:** 93
regional anesthesia by (CO) [Ogden], **53:** 82
MAO inhibitors, *See under* Ataractics
Marta, K. V., Joiner, J., and Shepherd, R. M.
Management of the Patient-Ventilator System (BR), **52:** 530
Marx, G. F. and Basell, G. M.
Obstetric Analgesia and Anesthesia (BR), **54:** 532
Marx, G. F. (ed.)
Clinical Management of Mother and Newborn (BR), **52:** 289
Masks, anesthesia, *See under* Equipment
Mass spectrometer, *See under* Equipment; Measurement techniques
Massage, cardiac, *See under* Heart
Masseter, muscle, *See under* Muscle
Mathematics, *See under* Measurement techniques
Mathieu, A. and Burke, J. F. (eds.)
Infection and the Preoperative Period (BR), **61:** 485
Maxillofacial surgery, *See under* Surgery
Mayer, B. W.
Pediatric Anesthesia (BR), **57:** 71
Measurement techniques
alfentanil
radioimmunoassays in, optimization of, in human serum (LR) [Schüttler & White], **61:** 315
autoradiography
in assessment of effects of sufentanil on regional cerebral glucose utilization in rats (OA) [Young, Smith, Greenberg, Reivich & Harp], **61:** 564
blood flow
alteration of, induced by saralasin or sodium nitroprusside in rats (OA) [Miller & Delaney], **54:** 199
in bypass blood flow during carotid endarterectomy (OA) [Fan, Chen, Chien & Corell], **55:** 305
and metabolic rate, cerebral, in hypercarbia—a controversy (EV) [Siesjö], **52:** 461
simultaneous direct and indirect, effects of hypercarbia on canine cerebral metabolism and blood flow with (OA) [Artru & Michenfelder], **52:** 466
blood gases
arterial
temperature correction of parameters for (MI) [Andritsch, Muravchick & Gold], **55:** 311
and temperature correction of (CO) [Sivarajan], **56:** 329
blood pressure
arterial cannulation for, aid in (CO) [Edelman], **53:** 79
in bypass blood flow during carotid endarterectomy (OA) [Fan, Chen, Chien & Corell], **55:** 305
direct, dynamic responses of liquid-filled catheter systems for (LR) [Shinozaki, Dean & Mazuzan], **53:** 498
direct—dynamic response requirements (MI) [Gardner], **54:** 227
factitiously low, from Dinamap™ (CO) [Roy, Morgan & Beamer], **59:** 258
and potential deficiencies in modifying the Dinamap® for use in neonate (CO) [Kochansky], **60:** 171
in thromboangiitis obliterans, Allen's test in (CO) [Peters & Chapin], **53:** 85
bupivacaine
by gas chromatography using tubular column and nitrogen-selective detector (LR) [Burm, van Kleef & de Boer], **57:** 527
carbon dioxide
during cardiopulmonary bypass (CO) [Jaffe & Bernhart], **56:** 485
continuous *in-vivo* blood-gas determination of (OA) [Richman, Jobes & Schwalb], **52:** 313
for on-line analysis of, for clinical applicability (LR) [Shimada, Yoshiya, Hirata, Takezawa & Taenaka], **61:** 311
catheter length
in epidural space (CO) [Jawalekar & Santos], **57:** 67
chromatography
column
in assessment of halothane-induced changes in release and disposition of norepinephrine at adrenergic nerve endings in dog saphenous vein (OA) [Lunn & Rorie], **61:** 377
gas, in determination of plasma levels of 2-chloroprocaine in obstetric patients and their neonates after epidural anesthesia (OA) [Kuhnert, Kuhnert, Prochaska & Gross], **53:** 21
high-pressure liquid, in study of halothane-induced ATP depletion in platelets from patients susceptible to malignanhyperthermia (OA) [Giger & Kaplan], **58:** 347
computed tomography
in demonstration of improved technique for alcohol neurolysis of celiac plexus (CR) [Singler], **56:** 137
computer
hand-held, for assuring proper drug dosage (CO) [Goyette], **58:** 202
diffusing capacity
lung membrane, for oxygen, changes in, produced by halothane (OA) [Sten, Laravuso & Burns], **56:** 97
Doppler ultrasound
during posterior fossa exploration, air embolism arising from burr holes detected by (CR) [Edelman & Wingard], **53:** 167
of *d*-tubocurarine, in humans: comparison to metocurine (OA) [Matteor, Brotherton, Nishitateno, Khambatta & Dias], **57:** 183
dye dilution
in measurement of extravascular lung water in dogs (LR) [Mihm, Feeley, Rosenthal & Lewis], **57:** 116
electrodes
continuous *in-vivo* blood-gas determination of (OA) [Richman, Jobes & Schwalb], **52:** 313
potassium, comparison of methods of blood withdrawal and sample preparation for (LR) [Hill, Nahrwold, Noonan & Northrop], **53:** 60
electromyography
in recording of succinylcholine-induced fasciculations (CO) [Collier], **56:** 409
in recording of succinylcholine-induced fasciculations (CO) [Muravchick], **56:** 410
in study of succinylcholine-induced fasciculations and intragastric pressure during induction of anesthesia (CR) [Muravchick, Burkett & Gold], **55:** 180
electron spin resonance
in study of free radical formation *in vivo* and hepatotoxicity due to halothane anesthesia (OA) [Plummer, Beckwith, Bastin, Cousins & Hall], **57:** 160
EMMA
practical considerations in use of (CO) [Palayiwa & Evans], **61:** 112
evoked compound electromyelography
in study of pharmacodynamics and pharmacokinetics of metocurine and *d*-tubocurarine in humans (OA) [Matteo, Brotherton, Nishitateno, Khambatta & Dias], **57:** 183
fentanyl
radioimmunoassays in, optimization of, in human serum (LR) [Schüttler & White], **61:** 315
finger
for measurement of catheter length (CO) [Horrow], **58:** 198

fluorescein
alteration of hemoglobin measurement by (CR) [Berry, Yin & Hoyt], **53:** 67
gas chromatography
automated
for studies of midazolam pharmacokinetics (LR) [Greenblatt, Locniskar, Ochs & Lauven], **55:** 176
in determination of bupivacaine in plasma, using tubular column and nitrogen-selective detector (LR) [Burm, van Kleef and de Boer], **57:** 527
identification and quantitative determination of fentanyl metabolites in patients by (LR) [Goromaru, Matsuura, Yoshimura, Miyawaki, Sameshima, Miyao, Furuta & Baba], **61:** 73
and mass spectrometry, urinary metabolites chloroprocaine studied by (LR) [Krohg & Jellum], **54:** 329
in study of disposition of bupivacaine in mother, fetus, and neonate following epidural anesthesia for cesarean section (OA) [Kuhnert, Kuhnert, Stitts & Gross], **55:** 611
gas exchange
lung model for testing (CO) [Stenqvist & Sonander], **58:** 594
possible source of error in (CO) [Fletcher, Nordström, Werner & Jonson], **59:** 77
systematic method for validation of (LR) [Damask, Weissman, Askanazi, Hyman, Rosenbaum & Kinney], **57:** 213
gas-liquid, in analysis of kinetics of local anesthetic esters and effects of adjuvant drugs on 2-chloroprocaine hydrolysis (OA) [Raj, Ohlweiler, Hitt & Denson], **53:** 307
hemoglobin
in alteration of hemoglobin measurement of fluorescein (CR) [Berry, Yin & Hoyt], **53:** 67
infrared
and calibration curves of enflurane using Beckman LB2® Gas Analyzer with halothane head (CO) [Goldman, Sherrill, De Campo & Aldrete], **53:** 79
intervillous blood flow
epinephrine does not alter, during epidural anesthesia (OA) [Albright, Joupilla, Hollmén, Joupilla, Vierola & Koivula], **54:** 131
intragastric pressure
and electromyography of fasciculating abdominal muscles (CO) [Collier], **56:** 409
and electromyography of fasciculating abdominal muscles (CO) [Muravchick], **56:** 410
succinylcholine-induced fasciculations and, during induction of anesthesia (CR) [Muravchick, Burkett & Gold], **55:** 180
ion-selective electrode
in monitoring of epinephrine-induced changes in plasma potassium (OA) [Lim, Linton & Band], **57:** 272
isotachophoresis
quantitative analysis of trifluoroacetate in urine and blood by (LR) [Morio, Fujii, Takiyama, Chikasue, Kikuchi & Ribarić], **53:** 56
liquid
in assessment of halothane-induced changes in release and disposition of norepinephrine at adrenergic nerve endings in dog saphenous vein (OA) [Lunn & Rorie], **61:** 377
lung water
extravascular, in dogs, using thermal-green dye indicator dilution method (LR) [Mihm, Feeley, Rosenthal & Lewis], **57:** 116
mass spectrometry
and gas chromatography, urinary metabolites of chloroprocaine studied by (LR) [Krohg & Jellum], **54:** 329
identification and quantitative determination of fentanyl metabolites in patients by (LR) [Goromaru, Matsuura, Yoshimura, Miyawaki, Sameshima, Miyao, Furuta & Baba], **61:** 73
multipatient anesthetic
in rapid analysis of data stored in long catheters (SA) [Ozanne, Young, Mazzei & Severinghaus], **55:** 62
in study of disposition of bupivacaine in mother, fetus, and neonate following epidural anesthesia for cesarean section (OA) [Kuhnert, Kuhnert, Stitts & Gross], **55:** 611
mathematics
use of negative exponents in (EV) [Michenfelder], **58:** 305
microspheres
in assessment of anesthetic influences on regional hemodynamics in normal and hemorrhaged rats (OA) [Seyde & Longnecker], **61:** 686
in assessment of effect of unilateral PEEP on gas exchange and pulmonary perfusion in canine lobar pneumonia (OA) [Light, Mink & Wood], **55:** 251
in assessment of influence of ketamine anesthesia on cardiac output and tissue perfusion in rats subjected to hemorrhage (OA) [Idvall], **55:** 297
radioactive
in investigation of blood flow alteration induced by saralasin or sodium nitroprusside in rats (OA) [Miller & Delaney], **54:** 199
radioactively labelled, whole-body distribution of, during anesthesia with halothane, enflurane, or ketamine (OA) [Miller, Kistner & Epstein], **52:** 296
in study of blood flow distribution in unanaesthetized swine and swine anesthetized with halothane + nitrous oxide, halothane, or enflurane (OA) [Tranquilli, Manohar, Parks, Thurmon, Theodorakis, Benson & Chasnov], **56:** 369
neurobehavior
neonatal neurologic and adaptive capacity score (NACS) and (CO) [Amiel-Tison, Barrier, Shnider, Levinson, Hughes & Stefani], **56:** 492
neuromuscular blockade
in awake subjects, relationship between respiratory muscle strength and vital capacity during (OA) [Gal & Goldberg], **54:** 141
with *d*-tubocurarine, in man, stimulus frequency and dose-response curve to (OA) [Ali & Savarese], **52:** 36
d-tubocurarine, in man, pharmacokinetics of edrophonium and neostigmine when antagonizing (OA) [Morris, Cronnelly, Miller, Stanski & Fahey], **54:** 399
edrophonium onset and duration of antagonism and atropine requirement during (OA) [Cronnelly, Morris & Miller], **57:** 261
and electrode polarity and peripheral nerve stimulation (CR) [Berger, Gravenstein & Munson], **56:** 402
with intramuscular succinylcholine, dose response to, in children (CR) [Liu, DeCook, Goodsouzian, Ryan & Liu], **55:** 599
long-term succinylcholine, during isoflurane anesthesia (OA) [Donati & Bevan], **58:** 6
and milliamperage requirements for supramaximal stimulation of ulnar nerve with surface electrodes (CR) [Kopman & Lawson], **61:** 83
nondepolarizing, recovery from, twitch, tetanus and train-of-four as indices of (OA) [Ali, Savarese, Lebowitz & Ramsey], **54:** 294
reversal, in neonates and infants, leg lift and maximum inspiratory force as clinical signs of (CR) [Mason & Betts], **52:** 441
succinylcholine in, potentiation with isoflurane (OA) [Donati & Bevan], **58:** 552
occlusion pressure
with esophageal ballon in anesthetized humans (LR) [Higgs, Behrakis, Bevan & Milic-Emili], **59:** 340

oxygen
continuous *in-vivo* blood-gas determination of (OA) [Richman, Jobes & Schwalb], **52:** 313
oxygen consumption
for on-line analysis of, for clinical applicability (LR) [Shimada, Yoshiya, Hirata, Takezawa & Taenaka], **61:** 311
pH
average, rebuttal (CO) [Kamaya, Mashimo & Ueda], **52:** 449
averaging acidity values and (CO) [Tomlin], **53:** 86
averaging, vs. H^+ values, an irrelevant debate (CO) [Grogono], **53:** 85
and temperature correction of (CO) [Sivarajan], **56:** 329
platelet bioassay
in identification of malignant hyperthermia (CO) [Giger & Kaplan], **60:** 266
in identification of malignant hyperthermia (CO) [Solomons & Masson], **60:** 265
plethysmography
in assessment of thoracic gas volume and chest-abdomen dimensions during anesthesia and muscle paralysis (OA) [Hedenstierna, Löfström & Lundh], **55:** 499
body
thoracic gas volume measured by, during anesthesia and muscle paralysis (LR) [Hedenstierna, Järnberg & Gottlieb], **55:** 439
pleural pressure
with esophageal balloon in anesthetized humans (LR) [Higgs, Behrakis, Bevan & Milic-Emili], **59:** 340
pressure
and another CVP artifact (CO) [Davis], **60:** 262
central venous
erroneous, with triple-lumen catheter in short patient (CO) [Salmenperä], **57:** 423
pseudoarterialization of, by infusion pump (CO) [Urquhart & Shupak], **59:** 79
terminology in reporting of (EV) [Michenfelder], **56:** 245
esophageal
intrinsic lower esophageal activity may interfere with (CO) [Evans, Davies & Wise], **60:** 615
zero reference levels of, technique for establishing (CO) [Fernández-Cano], **61:** 478
pulmonary vascular resistance (CO) [Hilgenberg], **58:** 484
pulmonary vascular resistance (CO) [Schulte-Sasse, Hess & Tarnow], **58:** 485
pulse contour analysis
and thermodilution methods of measuring cardiac output, comparison of, during anesthesia in dog (OA) [English, Hodges, Sentker, Johansen & Stanley], **52:** 56
pulse oximeter
evaluation of (CR) [Yelderman & New], **59:** 349
radioactive tracers
in study of effect of acute sympathectomy by epidural anesthesia on canine coronary circulation (OA) [Klassen, Bramwell, Bromage & Zborowska-Sluis], **52:** 8
radioimmunoassay
for measuring fentanyl and alfentanil in human serum, optimization of (LR) [Schüttler & White], **61:** 315
of metocurine, in human: comparison to metocurine (OA) [Matteo, Brotherton, Nishitateno, Khambatta & Dias], **57:** 183
regional
cerebral glucose utilization (CO) [Hawkins, Hass & Ransohoff], **58:** 290
cerebral glucose utilization (CO) [Crosby & Sokoloff], **58:** 291
regional blood flow
in conscious dogs, and cardiac output, morphine effects on (OA) [Priano & Vatner], **55:** 236
in conscious rat, effects of lidocaine on whole body distribution of radioactively labeled microspheres (OA) [Lescanic, Miller, DiFazio, Beckman & Moscicki], **55:** 269
regional curare test
in diagnosis of myasthenia gravis (RA) [Azar], **61:** 173
resistance
pulmonary vascular
improved clinical (CR) [Yelderman, New, Rosenthal & Ream], **52:** 365
respiratory quotient
and systematic method for validation of gas exchange measurements (LR) [Damask, Weissman, Askanazi, Hyman, Rosenbaum & Kinney], **57:** 213
selected ion monitoring
in study of disposition of bupivacaine in mother, fetus, and neonate following epidural anesthesia for cesarean section (OA) [Kuhnert, Kuhnert, Stitts & Gross], **55:** 611
SI units (CO) [deJong], **58:** 296
simultaneous exchange of two insoluble gases, in measurement of functional residual capacity during mechanical ventilation (LR) [Ozanne, Zinn & Fairley], **54:** 413
sodium dithionite in, in evaluation of changes in lung membrane diffusing capacity for oxygen produced by halothane (OA) [Stene, Laravuso & Burns], **56:** 97
spectral analysis
in automated EEG processing for intraoperative monitoring (MI) [Levy, Shapiro, Maruchak & Meathe], **53:** 223
spectrophotometry
of hemoglobin, oxyhemoglobin, and carboxyhemoglobin, for spectral absorbance of Intralipid® (LR) [Cane, Harrison, Shapiro & Kavanaugh], **53:** 53
spectroscopy
ultraviolet, in analysis of kinetics of local anesthetic esters and effects of adjuvant drugs on 2-chloroprocaine hydrolysis (OA) [Raj, Ohlweiler, Hitt & Denson], **53:** 307
thermodilution
cardiac output determination, simplified method of preparing iced injectate for (CO) [Maruschak & Schauble], **55:** 709
in measurement of cardiac output, and aortic pulse-wave contour analysis, comparison of, during anesthesia in dog (OA) [English, Hodges, Sentker, Johansen & Stanley], **52:** 56
in measurement of extravascular lung water in dogs (LR) [Mihm, Feeley, Rosenthal & Lewis], **57:** 116
thermometry
deep body, during general anesthesia (CR) [Muravchick], **58:** 271
time-weighted average, for nitrous oxide (LR) [McGill, Rivera & Howard], **53:** 424
transcutaneous oxygen
in critical care medicine (CO) [Yelderman], **59:** 266
twitch tension
in study of pharmacodynamics and pharmacokinetics of metocurine and *d*-tubocurarine in humans (OA) [Matteo, Brotherton, Nishitateno, Khambatta & Dias], **57:** 183
two-dimensional transesophageal echocardiography
in analysis of anaphylactic reaction in humans (CR) [Beaupre, Roizen, Cahaloan, Alpert, Cassorla & Schiller], **60:** 482
units
SI units, typographic error in explanation of (CO) [Severinghaus], **59:** 486
urinary metabolites of chloroprocaine (CO) [Krohg & Jellum], **56:** 483
urinary metabolites of chloroprocaine (CO) [Kuhnert, Kuhnert & Reese], **56:** 483
venous pressure
and central venous catheter placement for cardiopulmonary bypass (CO) [Watson], **53:** 86

for open heart surgery (CO) [Marquez, Sassano, Winter & Waterman], **58:** 394
Measurements
central venous
new, for location and cannulation of internal jugular vein (CO) [Gibbs & Arandia], **54:** 89
Mechanical ventilation, *See under* Ventilation
Mediastinal mass, *See under* Airway
Mediators
anaphylatoxins
and protamine reversal of heparin, catastrophic pulmonary vasoconstriction associated with (CR) [Lowenstein, Johnston, Lappas, D'Ambra, Schneider, Daggett, Akins & Philbin], **59:** 470
complement
and protamine reversal of heparin, catastrophic pulmonary vasoconstriction associated with (CR) [Lowenstein, Johnston, Lappas, D'Ambra, Schneider, Daggett, Akins & Philbin], **59:** 470
histamine
and protamine reversal of heparin, catastrophic pulmonary vasoconstriction associated with (CR) [Lowenstein, Johnston, Lappas, D'Ambra, Schneider, Daggett, Akins & Philbin], **59:** 470
leukotrienes
and protamine reversal of heparin, catastrophic pulmonary vasoconstriction associated with (CR) [Lowenstein, Johnston, Lappas, D'Ambra, Schneider, Daggett, Akins & Philbin], **59:** 470
thromboxane
and protamine reversal of heparin, catastrophic pulmonary vasoconstriction associated with (CR) [Lowenstein, Johnston, Lappas, D'Ambra, Schneider, Daggett, Akins & Philbin], **59:** 470
Medical school, *See under* Education
Medical students, *See under* Education
Medical writing, *See under* Education
Melanoma, *See under* Cancer
Membrane
cell
of *Aplysia californica*, halothane effects on, hydrostatic pressure does not antagonize (OA) [Parmentier & Bennett], **53:** 9
effects of halothane on (OA) [Bosnjak, Seagard, Wu & Kampine], **57:** 473
SA node
effects of halothane, enflurane, and isoflurane on (OA) [Bosnjak & Kampine], **58:** 314
lipid peroxidation
in barbiturate protection of brain from hypoxic damage (EV) [Steen & Michenfelder], **53:** 183
and binding of halothane-free radicals to fatty acids following UV radiation (OA) [Bösterling, Trevor & Trudell], **56:** 380
in brain tissue *in vitro*, inhibitory effects of different barbiturates on (OA) [Smith, Rehncrona & Siesjö], **53:** 186
liposomes
and models for synaptic vesicles, and anesthetics acting by collapsing *p*H gradients (OA) [Bangham & Mason], **53:** 135
nerve
conduction, paradoxical preservation of, by lidocaine (OA) [Fink], **57:** 167
phospholipids
and binding of halothane-free radicals to fatty acids following UV radiation (OA) [Bösterling, Trevor, Trudell], **56:** 380
receptors
function
clinical implications of, in anesthesia (MI) [Maze], **55:** 160
Membrane effects, *See under* Theories of Anesthesia
Memory
awareness during surgery and (EV) [Blancher], **61:** 1
children
assessment of, and time course of antirecall effect of diazepam and lorazepam following oral administration (OA) [Kothary, Brown, Pandit, Samra & Pandit], **55:** 641
assessment of, following general anesthesia (OA) [Morgan, Furman & Dikman], **55:** 386
consolidation
during high-dose fentanyl-oxygen anesthesia (CR) [Hilgenberg], **54:** 341
of surgery for major trauma (OA) [Bogetz & Katz], **61:** 6
Mental effects, *See under* Recovery
Meperidine, *See under* Analgesics, narcotic; Anesthetic techniques, peridural, epidural; Anesthetics, intravenous; Premedication
Mepivacaine, *See under* Anesthetics, local
Metabolic acidosis, *See under* Acid-base equilibrium
Metabolism
acromegaly
airway management in patients with (CO) [Messick], **56:** 157
adenosine triphosphate
halothane-induced depletion of, in platelets from patients susceptible to malignant hyperthermia (OA) [Giger & Kaplan], **58:** 347
Na^+, K^+-, inhibition in new approach to differential peripheral nerve fiber block (OA) [Fink & Cairns], **59:** 127
amino acids
in rats, effect of diazepam on, and its interaction with nitrous oxide (OA) [Carlsson & Chapman], **54:** 488
in study of effects of parenteral nutritional regimens on oxidative drug metabolism (OA) [Pantuck, Pantuck, Weissman, Askanazi & Conney], **60:** 534
anesthetic
in rats with chronic renal impairment (OA) [Rice, Sienvenpiper & Mazze], **60:** 418
antipyrine
in study of drug disposition in surgical patients (EV) [Vesell & Biebuyck], **60:** 529
in study of effects of parenteral nutritional regimens on oxidative drug metabolism (OA) [Pantuck, Pantuck, Weissman, Askanazi & Conney], **60:** 534
carbohydrate
in study of drug disposition in surgical patient (EV) [Vesell & Biebuyck], **60:** 529
in study of parenteral nutritional regimens on oxidative drug metabolism (OA) [Pantuck, Pantuck, Weissman, Askanazi & Conney], **60:** 534
central nervous system
and cerebral metabolism, of glucose, in conscious and nitrous oxide- or pentobarbital-treated rats (OA) [Crosby, Crane & Sokoloff], **61:** 434
chloroprocaine
effect of abnormal pseudocholinesterase on, in postpartum patient (CR) [Kuhnert, Philipson, Pimental & Kuhnert], **56:** 477
citric acid cycle
in rats, effect of diazepam on, and its interaction with nitrous oxide (OA) [Carlsson & Chapman], **54:** 488
diabetes
and anesthesia for patients with insulinoma treatment with oral dizoxide (CR) [Burch & McLeskey], **55:** 472
and blood glucose control during surgery (EV) [Palumbo], **55:** 94
in continuous insulin infusion (CO) [Clark, Seifen & Jordan], **56:** 332

in continuous insulin infusion (CO) [Walts & Miller], **56:** 333
and perioperative management of (OA) [Walts, Miller, Davidson & Brown], **55:** 104
two regimens for management of, during open-heart surgery, comparison of (CR) [Elliott, Gill, Home, Noy, Holden & Alberti], **60:** 364

diazoxide
oral
and anesthesia for patients with insulinoma treatment with (CR) [Burch & McLeskey], **55:** 472

DNA
abnormal, in prolonged administration of nitrous oxide, folinic acid to correct (CO) [O'Sullivan, Jennings, McCann, Ward, Scott & Weir], **57:** 558
abnormal, in prolonged administration of nitrous oxide, folinic acid to correct (CO) [Skacel, Chanarin, Hewlett & Nunn], **57:** 557
assessment of, in study of human bone marrow biochemical function and megaloblastic hematopoiesis after nitrous oxide anesthesia (OA) [O'Sullivan, Jennings, Ward, McCann, Scott & Weir], **55:** 645
enflurane and halothane effects on, in *Tetrahymena pyriformis*, compared (OA) [Conklin & Lau], **53:** 287
in low-level binding of halothane metabolites to rat liver histones *in vivo* (OA) [Edmunds, Trudell & Cohen], **54:** 298

drug
disposition in surgical patient (EV) [Vesell & Biebuyck], **60:** 529
oxidative, effects of parenteral nutritional regimens on (OA) [Pantuck, Pantuck, Weissman, Askanazi & Conney], **60:** 534

enzyme induction
in anesthetists, occupational exposure to halothane results in (OA) [Duvaldestin, Mazze, Nivoche & Desmonts], **54:** 57
and factors affecting formation of chlorotrifluoroethane and chlorodifluoroethylene from halothane (OA) [Maiorino, Sipes, Gandolfi, Brown & Lind], **54:** 383
and halothane hepatitis mystery (EV) [Brown], **55:** 93
and hepatotoxicity of halothane, genetic differences in, in three rat strains (OA) [Gourlay, Adams, Cousins & Hall], **55:** 96
and isoniazid-induced enflurane defluorination in humans (OA) [Mazze, Woodruff & Heerdt], **57:** 5

fasting
and blood hormone and metabolite levels of individuals susceptible to malignant hyperpyrexia at rest and in response to food and mild exercise (OA) [Campbell, Ellis & Evans], **55:** 46
and halothane hepatotoxicity in phenobarbital-hypoxia and triiodothyronine model (OA) [Uetrecht, Wood, Phythyon & Wood], **59:** 196

fat emulsions
vs. glucose, in nutrition for patient with respiratory failure (OA) [Askanazi, Nordenstrom, Rosenbaum, Elwyn, Hyman, Carpentier & Kinney], **54:** 373

fatty acids
and myocardial function in response to ischemia in swine during halothane and fentanyl anesthesia (OA) [Merin, Verdouw & de Jong], **56:** 84

free radicals
of nitrous oxide, by human and rat intestinal contents (OA) [Hong, Trudell, O'Neil & Cohen], **52:** 16

genetic factors
and halothane hepatitis mystery (EV) [Brown], **55:** 93
in reductive metabolism and hepatotoxicity of halothane, differences in, in three rat strains (OA) [Gourlay, Adams, Cousins & Hall], **55:** 96

glucose
and blood hormone and metabolic levels of individuals susceptible to malignant hyperpyrexia at rest and in response to food and mild exercise (OA) [Campbell, Ellis & Evans], **55:** 46
control of, during surgery (EV) [Palumbo], **55:** 94
in diabetes mellitus, during continuous insulin infusion (CO) [Clark, Seifen & Jordan], **56:** 332
in diabetes mellitus, during continuous insulin infusion (CO) [Walts & Miller], **56:** 333
effects of isoflurane, halothane and enflurane on, compared (OA) [Merin], **55:** 398
vs. fat emulsions, in nutrition for patient with respiratory failure (OA) [Askanazi, Nordenstrom, Rosenbaum, Elwyn, Hyman, Carpentier & Kinney], **54:** 373
and glucose-stimulated insulin secretion, in isolated rat pancreatic islets, effects of halothane on (OA) [Gingerich, Wright & Paradise], **53:** 219
for intraoperative fluid management influences carbon dioxide production and respiratory quotient (OA) [Hagerdal, Caldwell & Gross], **59:** 48
and myocardial function in response to ischemia in swine during halothane and fentanyl anesthesia (OA) [Merin, Verdouw & de Jong], **56:** 84
and paradoxical preservation of neural conduction by lidocaine (OA) [Fink], **57:** 167
in patients undergoing operation for insulinoma removal (OA) [Muri, Endres, Offord, van Heerden & Tinker], **59:** 371
and perioperative management of diabetes mellitus (OA) [Walts, Miller, Davidson & Brown], **55:** 104
or potassium lack, role of, in nerve block (LR) [Fink], **55:** 172
in rats, effect of diazepam on, and its interaction with nitrous oxide (OA) [Carlsson & Chapman], **54:** 488
and total parenteral nutrition in perioperative period (EV) [Biebuyck], **54:** 360
two regimens for management of, during open-heart surgery, comparison of (CR) [Elliott, Gill, Home, Noy, Holden & Alberti], **60:** 364

halothane
kinetics of, in humans, noninvasive *in vivo* method of assessing (OA) [Cahalan, Johnson, Eger, Sheiner, Richardson, Varner & Severinghaus], **57:** 298

hyperglycemia
and anesthesia for patients with insulinoma treatment with oral diazoxide (CR) [Burch & McLeskey], **55:** 472
and blood glucose control during surgery (EV) [Palumbo], **55:** 94
complications of, tight perioperative control of diabetes and (CO) [Palumbo], **56:** 242
complications of, tight perioperative control of diabetes and (CO) [Roizen], **56:** 242
and perioperative management of diabetes mellitus (OA) [Walts, Miller, Davidson & Brown], **55:** 104

hyperinsulinism
and anesthesia for patients with insulinoma treatment with oral diazoxide (CR) [Burch & McLeskey], **55:** 472

hypoglycemia
and blood glucose control during surgery (EV) [Palumbo], **55:** 94
and perioperative management of diabetes mellitus (OA) [Walts, Miller, Davidson & Brown], **55:** 104
seizures induced by, in an infant during anesthesia (CR) [Maze & Samuels], **52:** 77

inosine
and myocardial function in response to ischemia in swine during halothane and fentanyl anesthesia (OA) [Merin, Verdouw & de Jong], **56:** 84

insulin
and blood glucose control during surgery (EV) [Palumbo], **55:** 94
and blood hormone and metabolite levels of individuals susceptible to malignant hyperthermia at rest and in response to food and mild exercise (OA) [Campbell, Ellis & Evans], **55:** 46
in continuous insulin infusion in management of diabetics (CO) [Clark, Seifen & Jordan], **56:** 332
in continuous insulin infusion in management of diabetics (CO) [Walts & Miller], **56:** 333
glucose-stimulated, and glucose oxidation, in isolated rat pancreatic islets, effects of halothane on (OA) [Gingerich, Wright & Paradise], **53:** 219
and perioperative management of diabetes mellitus (OA) [Walts, Miller, Davidson & Brown], **55:** 104
preventive administration of, for myocardial protection in cardiac surgery (OA) [Haider, Eckersberger & Wolner], **60:** 422
two regimens for management of, during open-heart surgery, comparison of (CR) [Elliott, Gill, Home, Noy, Holden & Alberti], **60:** 364

insulinoma
treatment with oral diazoxide, anesthesia for patients with (CR) [Burch & McLeskey], **55:** 472

lactate
and blood hormone and metabolite levels of individuals susceptible to malignant hyperpyrexia at rest and in response to food and mild exercise (OA) [Campbell, Ellis & Evans], **55:** 46
during controlled hypotension with adenosine in cerebral aneurysm surgery (OA) [Sollevi, Lagerkranser, Irestedt, Gordon & Lindquist], **61:** 400
effects of isoflurane, halothane and enflurane on, compared (OA) [Merin], **55:** 398
and myocardial function in response to ischemia in swine during halothane and fentanyl anesthesia (OA) [Merin, Verdouw & de Jong], **56:** 84

lactic acidemia
in Leigh's syndrome, anesthesia for child with (CR) [Ward], **55:** 80
during transurethral resection of prostate using sorbitol as urologic irrigant (CO) [Johans, Rofkar, Townsend & Eggers], **52:** 374

lidocaine metabolites
N-dealkylated, of response of isolated rabbit aorta to transmural electrical stimulation (OA) [Fukuda, Takeshita & Toda], **53:** 106

lipid
2,6-pipecolylxylidine (PPX)
in mother, fetus, and neonate following epidural anesthesia for cesarean section, use of selected ion monitoring technique to study (OA) [Kuhnert, Kuhnert, Stitts & Gross], **55:** 611
metabolites
and blood hormone and metabolite levels of individuals susceptible to malignant hyperpyrexia at rest and in response to food and mild exercise (OA) [Campbell, Ellis & Evans], **55:** 46

metabolites
of 2-chloroprocaine, 2-chloroaminobenzoic acid, plasma levels of, in obstetric patients and their neonates after epidural anesthesia (OA) [Kuhnert, Kuhnert, Prochaska & Gross], **53:** 21
of enflurane, and renal fluoride excretion and plasma fluoride levels are dependent on urinary *p*H (OA) [Järnberg, Ekstrand & Irestedt], **54:** 48
of enflurane, isoflurane, and methoxyflurane in rat hepatic microsomes from ethanol-treated animals (OA) [van Dyke], **58:** 221
fluorinated ether anesthetics, by rat hepatic microsomes following isoniazid administration (OA) [Rice, Sbordone & Mazze], **53:** 489
of halothane, genotoxic and mutagenic assays of, in *Bacillus subtilis* and *Salmonella typhimurium* (OA) [Sachdev, Cohen & Simmon], **53:** 31
of halothane, low-level binding of, to rat liver histones *in vivo* (OA) [Edmunds, Trudell & Cohen], **54:** 298
of halothane, trifluoroacetate, quantitative analysis of, in urine and blood by isotachophoresis (LR) [Morio, Fujii, Takiyama, Chikasue, Kikuchi & Ribarić], **53:** 56
halothane, effects of hypersensitivity to, on halothane-induced liver damage (LR) [Ford, Coyle & Harrington], **60:** 141
and halothane hepatotoxicity in phenobarbital-hypoxia and triiodothyronine model (OA) [Uetrecht, Wood, Phythyon & Wood], **59:** 196
in isoniazid-induced enflurane defluorination in humans (OA) [Mazze, Woodruff & Heerdt], **57:** 5

neostigmine
do not contribute to antagonism of neuromuscular blockade in dog (OA) [Hennis, Cronnelly, Sharma, Fisher & Miller], **61:** 534
nitrous oxide, and cancer (EV) [Cohen], **52:** 6
nitrous oxide, by human and rat intestinal contents (OA) [Hong, Trudell, O'Neil & Cohen], **52:** 16

pyridostigmine
do not contribute to antagonism of neuromuscular blockade in dog (OA) [Hennis, Cronnelly, Sharma, Fisher & Miller], **61:** 534
by rat hepatic microsomes, following ethanol consumption (OA) [Rice, Dooley & Mazze], **58:** 237

urinary
of chloroprocaine (CO) [Krohg & Jellum], **56:** 483
of chloroprocaine (CO) [Kuhnert, Kuhnert & Reese], **56:** 483
of chloroprocaine, studied by combined gas chromatography—mass spectrometry (LR) [Krohg & Jellum], **54:** 329

methohexital
and thiopental, pharmacokinetics of, in surgical patients (OA) [Hudson, Stanski & Burch], **59:** 215

microsomes
hepatic
and factors affecting formation of chlorotrifluoroethane and chlorodifluoroethylene form halothane (OA) [Maiorino, Sipes, Gandolfi, Brown & Lind], **54:** 383
rat lover, low-level binding of halothane metabolites to, *in vivo* (OA) [Edmunds, Trudell & Cohen], **54:** 298

mitochondria
and effects of volatile anesthetics on myocardial oxidation-reduction status assessed by NADH fluorometry (LR) [Kissin, Aultman & Smith], **59:** 447

nitrogen
and effect of protein intake on ventilatory drive (OA) [Askanazi, Weissman, LaSala, Milic-Emili & Kinney], **60:** 106

nitrous oxide
and inactivation of methionine synthetase by, in mice (OA) [Koblin, Watson, Deady, Stokstad & Eger], **54:** 318

nutrition
total parenteral, in perioperative period (EV) [Biebuyck], **54:** 360

oxygen consumption
and blood hormone and metabolite levels of individuals susceptible to malignant pyrexia at rest and in response to food and mild exercise (OA) [Campbell, Ellis & Evans], **55:** 46
during controlled hypotension with adenosine in cerebral aneu-

rysm surgery (OA) [Sollevi, Lagerkranser, Irestedt, Gordon & Lindquist], **61:** 400
during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Steen & Milde], **58:** 18
effects of isoflurane, halothane and enflurane on, compared (OA) [Merin], **55:** 398
effects of prolonged hypothermia and rewarming on (OA) [Steen, Milde & Michenfelder], **52:** 224
during sleep and anesthesia, in dogs (OA) [Mikat, Peters, Zindler & Arndt], **60:** 220
and system for On-line analysis of, for clinical applicability (LR) [Shimada, Yoshiya, Hirata, Takezawa & Taenaka], **61:** 311
during total parenteral nutrition, using glucose vs. fat (OA) [Askanazi, Nordenstrom, Rosenbaum, Elwyn, Hyman, Carpentier & Kinney], **54:** 373
parenteral nutrition
and effect of protein intake on ventilatory drive (OA) [Askanazi, Weissman, LaSala, Milic-Emili & Kinney], **60:** 106
for patient with respiratory failure (OA) [Askanazi, Nordenstrom, Rosenbaum, Elwyn, Hyman, Carpentier & Kinney], **54:** 373
phosphate
and hypophosphatemic respiratory failure complicating total parenteral nutrition (CO) [Youssef], **57:** 246
and myocardial function in response to ischemia in swine during halothane and fentanyl anesthesia (OA) [Merin, Versouw & de Jong], **56:** 84
protein
enflurane and halothane effects on, in *Tetrahymena pyriformis*, compared (OA) [Conklin & Lau], **53:** 287
proteins
and total parenteral nutrition in perioperative period (EV) [Biebuyck], **54:** 360
pyruvate
and blood hormone and metabolite levels of individuals susceptible to malignant hyperpyrexia at rest and in response to food and mild exercise (OA) [Campbell, Ellis & Evans], **55:** 46
effects of isoflurane, halothane and enflurane on, compared (OA) [Merin], **55:** 398
respiratory quotient
and carbon dioxide production, intraoperative fluid management influences (OA) [Hagerdal, Caldwell & Gross], **59:** 48
measurements, lung model for testing (CO) [Stenqvist & Sonander], **58:** 594
during total parenteral nutrition, using glucose vs. fat (OA) [Askanazi, Nordenstrom, Rosenbaum, Elwyn, Hyman, Carpentier & Kinney], **54:** 373
RNA
enflurane and halothane effects on, in *Tetrahymena pyriformis* compared (OA) [Conklin & Lau], **53:** 287
halothane effects on, in *Tetrahymena pyriformis* (LR) [Conklin & Lau], **61:** 78
in low-level binding of halothane metabolites to rat liver histones *in vivo* (OA) [Edmunds, Trudell & Cohen], **54:** 298
sodium citrate
neutralizing capacity of (CO) [Eyler & Zaccari], **58:** 591
neutralizing capacity of (CO) [Gibbs & Banner], **58:** 592
starvation
and total parenteral nutrition in perioperative period (EV) [Biebuyck], **54:** 360
succinylcholine
effect of abnormal pseudocholinesterase on, in postpartum patient (CR) [Kuhnert, Philipson, Pimental & Kuhnert], **56:** 477
thiopental
and methohexital, pharmacokinetics of, in surgical patients (OA) [Hudson, Stanski & Burch], **59:** 215
and protein binding (OA) [Burch & Stanski], **58:** 146
uridine
halothane effects on, in *Tetrahymena pyriformis* (LR) [Conklin & Lau], **61:** 78
Metabolism, *See also under* Brain; Pharmacokinetics
amino acids
in study of drug disposition in surgical patient (EV) [Vesell & Biebuyck], **60:** 529
carbon dioxide production
and system for on-line analysis of, for clinical applicability (LR) [Shimada, Yoshiya, Hirata, Takezawa & Taenaka], **61:** 311
Metabolites, *See under* Biotransformation; Metabolism; Toxicity
Methadone, *See under* Analgesics, narcotic; Pharmacology
Methemoglobinemia, *See under* Blood; Complications
Methionine synthetase, *See under* Enzymes
Methohexital, *See under* Anesthetics, intravenous; Anesthetics, rectal; Anesthetic techniques, rectal; Hypnotics, barbiturates
Methoxyflurane, *See under* Anesthetics, volatile
Methylcurare, *See under* Neuromuscular relaxants
Methyldopa, *See under* Sympathetic nervous system, sympathetic agents
Methylene blue, *See under* Pharmacology
Methylmethacrylate, *See under* Surgery, orthopedic, bone cement; Toxicity
Metoclopramide, *See under* Pharmacology; Premedication; Vomiting, antiemetics
Metocurine, *See under* Neuromuscular relaxants
Metoprolol, *See under* Sympathetic nervous system, beta blocking drugs
Metrizamide, *See under* Pharmacology
Metubine, *See under* Neuromuscular relaxants
Microbial function, *See under* Blood
Microbicidal function, *See under* Blood
Microcirculation
muscle
anesthetic influence on, in hemorrhaged rats (OA) [Longnecker, Ross & Silver], **57:** 177
Microemboli, *See under* Lung(s)
Microfilters blood, *See under* Blood
Microsomes, *See under* Biotransformation (drug); Liver, metabolism; Metabolism, hepatic
Microspheres, *See under* Measurement techniques
Microsurgery, *See under* Surgery
Midazolam, *See under* Anesthetics, intravenous; Anticonvulsants; Ataractics; Biotransformation (drug); Hypnotics, benzodiazepines; Pharmacokinetics
Midbrain reticular formation, *See under* Brain
Military medicine, *See under* History
Miller, R. D.
Anesthesia (BR), **57:** 147
Minimum alveolar concentration, *See under* Potency, anesthetic, MAC
Minoxidil, *See under* Anesthetic techniques, hypotension, induced; Complications, hypertension; Pharmacology, antihypertensives
Minute ventilation, *See under* Ventilation
Mitochondria, *See under* Membrane; Metabolism
Mitral valve, *See under* Heart
Models, *See under* Membranes; Pharmacokinetics
Molecular structure, *See under* Structure, molecular
Molitch, M. E.
Management of Medical Problems in Surgical Patients (BR), **57:** 559
Monitoring
anesthetic gas
with multipatient anesthetic mass spectrometry (SA) [Ozanne, Young, Mazzei & Severinghaus], **55:** 62

using piezoelectric detector: evaluation of Engstrom EMMA (LR) [Hayes, Westenskow & Jordan], **59:** 435
auditory evoked potentials
human, fentanyl anesthesia and (OA) [Samra, Lilly, Rush & Kirsh], **61:** 261
blood flow
carotid
and determination of shunt flow during carotid endarterectomy (CO) [Lindsey], **61:** 215
blood pressure
during Allen's test (CO) [Messick], **54:** 523
during arterial occlusion, following radial artery cannulation (CO) [Davis], **56:** 331
in aspirin pretreatment for cannulation of radial artery (CO) [Cohen & Bedford], **52:** 282
automatic noninvasive, hazard of (CO) [Betts], **55:** 713
to avoid myocardial ischemia during halothane anesthesia for coronary-artery revascularization (OA) [Lieberman, Orkin, Jobes & Schwartz], **59:** 36
during cardiopulmonary bypass, and detection of accidental cannulation (CR) [McLeskey & Cheney], **56:** 214
central venous
perioperative, for pulmonary artery catheterization (EV) [Lowenstein & Teplick], **53:** 361
perioperative, for pulmonary artery catheterization (OA) [Mangano], **53:** 364
in detection of radial artery pseudoaneurysm following cannulation (CO) [McLeskey], **53:** 266
Dinamap® in, modification of, for mechanical sphygmanometry (CO) [Riopelle], **57:** 245
direct, dynamic responses of liquid-filled catheter systems for (LR) [Shinozaki, Deane & Mazuzan], **53:** 498
direct-dynamic response requirements (MI) [Gardner], **54:** 227
of hemodynamic responses to preoperative vascular cannulation in patients with coronary artery disease (CR) [Waller, Zaidan, Kaplan & Bauman], **56:** 219
mean arterial, in critically ill newborns, automated oscillometric technique for (CR) [Kimble, Darnall, Yelderman, Ariagno & Ream], **54:** 423
neonatal Dinamap® adaptation for (CO) [Zmyslowski & Lena], **58:** 583
pulmonary capillary wedge, perioperative, for pulmonary artery catheterization (EV) [Lowenstein & Teplick], **53:** 361
pulmonary capillary wedge, perioperative, for pulmonary artery catheterization (OA) [Mangano], **53:** 364
by radial artery cannulation, effect of method of, on postcannulation blood flow and thrombus formation (CR) [Jones, Hill, Nahrwold & Bolles], **55:** 76
radial artery cannulation in (OA) [Slogoff, Keats & Arlund], **59:** 42
radial artery catheter replacement for (CO) [Brown], **55:** 333
radial-artery catheterization in, pseudoaneurysm as late complication of (CR) [Wolf & Mangano], **52:** 80
carbon dioxide
during cardiopulmonary bypass (CO) [Jaffe & Bernhard], **56:** 485
continuous *in-vivo* blood-gas determination in (OA) [Richman, Jobes & Schwalb], **52:** 313
expiratory
potential value of, in patients considered to be susceptible to malignant hyperthermia (CO) [Triner & Sherman], **55:** 482
fraction, continuous infrared end-tidal, and use of pulmonary-artery catheter, compared in detection and treatment of venous air embolism (OA) [Marshall & Bedford], **52:** 131
with multipatient anesthetic mass spectrometry (SA) [Ozanne, Young, Mazzei & Severinghaus], **55:** 62
to verify intratracheal placement of breathing tube (CO) [Bashein & Cheney], **61:** 782
cardiac output
thermodilution in, simplified method of preparing iced injectate for (CO) [Maruschak & Schauble], **55:** 709
cardiokymography
noninvasive detection of perrinduction ischemic ventricular dysfunction by, in humans (CR) [Bellows, Bode, Levy, Foex & Lowenstein], **60:** 155
central venous
to avoid myocardial ischemia during halothane anesthesia for coronary-artery revascularization (OA) [Lieberman, Orkin, Jobes & Schwartz], **59:** 36
new technique for location and cannulation of internal jugular vein for (CO) [Gibbs & Arandia], **54:** 89
and right hydrothorax after left external jugular vein catheterization (CR) [Ghani & Berry], **58:** 93
complications
ipsilateral mydriasis
following carotid-artery puncture during attempted cannulation of internal jugular vein (CR) [Forestner], **52:** 438
Doppler
esophageal, for detection of air embolism (OA) [Martin & Colley], **58:** 117
earpiece
anesthesia
low cost, comfortable and effective (CO) [Swenson], **55:** 607
electrocardiogram
associated with pacing (RA) [Zaiden], **60:** 319
esophageal, simple device for monitoring (CO) [Brown & Greenberg], **59:** 483
electrocardiography
of hemodynamic responses to preoperative vascular cannulation in patients with coronary artery disease (CR) [Waller, Zaidan, Kaplan & Bauman], **56:** 219
precordial lead (V_5), capability of, by simple modification of EKG monitor leads (CO) [Nagel & Weeks], **53:** 179
V-lead adapter in (CR) [Sass], **52:** 78
electroencephalogram
hypothermia and (CO) [Levy], **58:** 396
hypothermia and (CO) [Sharbrough, Quasha, & Tinker], **58:** 396
in study of depth of anesthesia and acute tolerance to thiopental (OA) [Hudson, Stanski, Saidman & Meathe], **59:** 301
electroencephalography
artifacts
rhythmic, identification of, by power-spectrum analysis (CR) [Levy, Shapiro & Meathe], **53:** 505
automated, intraoperative (CO) [Klein & Davis], **54:** 433
automated processing of, for intraoperative monitoring (MI) [Levy, Shapiro, Maruchak & Meathe], **53:** 223
changes on, quantitative analysis of, during hypothermia (OA) [Levy], **60:** 291
diagnostic activation of epileptogenic foci by enflurane during (CR) [Flemming, Fitzpatrick, Fariello, Duff, Hellman & Hoff], **52:** 431
DSA system in, misleading (CO) [Dubois, Smith & Fleming], **52:** 101
and hemiparesis following carotid endarterectomy (CR) [Grundy, Sanderson, Webster, Richey, Procopio & Karanjia], **55:** 462
and intraoperative EEG patterns (OA) [Levy], **60:** 430
after metrizamide (CO) [Pyles & Pashayan], **58:** 590
prolonged suppression with, in hypothermia plus thiopental (OA) [Quasha, Tinker & Sharbrough], **55:** 636
in seizure associated with induction of anesthesia with isoflurane (CR) [Poulton & Ellingson], **61:** 471

electromyogram
frequency sweep, and receptor occlusion, relationship between, during competitive neuromuscular blockade (OA) [Yodlowski & Mortimer], **54:** 23
frequency sweep, in assessment of neuromuscular function in infants following anesthesia (OA) [Crumrine & Yodlowski], **54:** 29
end-tidal
to avoid myocardial ischemia during halothane anesthesia for coronary-artery revascularization (OA) [Lieberman, Orkin, Jobes & Schwartz], **59:** 36
with multipatient anesthetic mass spectrometry (SA) [Ozanne, Young, Mazzei & Severinghaus], **55:** 62
evoked potentials
intraoperative (CO) [Raudzens], **58:** 593
methodology in studies of challenged (CO) [Grundy, Chapman & Benedetti], **52:** 286
fetus
heart-rate variability intra- and postoperatively, effects of nitrous oxide and fentanyl anesthesia on (CR) [Johnson & Colley], **52:** 429
fluoroscopy
value of, before performing phrenic nerve block (CR) [Benzon, Prasad & Barthwell], **55:** 469
heart
rate-pressure product, is it misleading guide (CO) [Kissin, Reves & Mardis], **52:** 373
Holter method
during noncardiac surgery with intravenous nitroglycerin (CR) [Coriat, Daloz, Bousseau, Fusciardi, Echter & Viars], **61:** 193
intraoperative
of sensory-evoked potentials (MI) [Grundy], **58:** 72
invasive
to determine incidence of perioperative myocardial infarction (CO) [Morris], **61:** 213
and differences in reinfarction rates, due to differences in populations? (CO) [Rao], **61:** 214
and differences in reinfarction rates, due to differences in populations? (CO) [Rooke, Peterson, Faulhaber & Buffington], **61:** 213
left atrial pressure
in entrapment of mitral valve prosthesis with left atrial catheter (CR) [Porter, Norfleet, Boone, Battaglini & Starek], **60:** 246
mass spectrometers
of mixed expired gas transients, as noninvasive index of effects of PEEP (CR) [Zinn, Ozanne & Fairley], **52:** 261
nerve
and neuromuscular response of infants to continuous infusion of succinylcholine (OA) [Goodsouzian & Liu], **60:** 97
train-of-four, dose response to, following intramuscular succinylcholine in children (SA) [Liu, DeCook, Goodsouzian, Ryan & Liu], **55:** 599
neuromuscular blockade
clinical testing for, correlates with train-of-four (CO) [Cullen, Viby-Mogensen, Jørgensen & Ørding], **52:** 185
with vecuronium in children (OA) [Fisher & Miller], **58:** 519
neuroradiology
anesthesia and (CO) [Pyles & Pashayan], **58:** 590
oxygen
and accidental disconnection, pulmonary barotrauma in (CO) [Rendell-Baker & Meyer], **58:** 286
Alligation Alternate method of (CO) [Priano, Solanki & Gloyna], **57:** 145
circuit pressure
failure of battery-operated alarms in (CR) [Mazza & Wald], **53:** 246
continuous *in-vivo* blood-gas determination in (OA) [Richman, Jobes & Schwalb], **52:** 313
in expiratory limb of circle, case for (CO) [Meyer], **61:** 347
failure in, in prevention of hypoxic accidents (CO) [Rendell-Baker & Meyer], **58:** 287
with multipatient anesthetic mass spectrometry (SA) [Ozanne, Young, Mazzei & Severinghaus], **55:** 62
table for—use of compresses air made easy (CR) [Teeple & Pavlov], **55:** 692
oxygen concentration
audio vs. visual alarm for (CO) [Steward, Pelton & Brummitt], **52:** 192
Beckman D2® oxygen analyzer for, moisture-proofing of (CO) [Bandy & Finch], **52:** 190
perioperative
superficial temporal artery cannulation in, in adults (CO) [Brown, Gordon & Brown], **61:** 114
perioperative invasive
and coronary-artery disease (CO) [Gardner, Parker & Wong], **52:** 525
plethysmography
nasal
failure of, to estimate cerebral blood flow during carotid occlusion (CR) [Cucchiara & Messick], **55:** 585
posttetanic count (PTC)
new method of evaluation of intense nondepolarizing muscular blockade (CR) [Viby-Mogensen, Howardy-Hansen, Chræmmer-Jorgensen, Ørding, Engbæk and Nielsen], **55:** 458
posttetanic facilitation
and tactile evaluation of posttetanic count (PTC) (CR) [Howardy-Hansen, Viby-Mogensen, Gottschau, Skovgaard, Chræmmer-Jørgensen & Engbæk], **60:** 372
potassium
plasma, changes in, induced by epinephrine (OA) [Lim, Linton & Band], **57:** 272
power-spectrum analysis
in identification of rhythmic EEg artifacts (CR) [Levy, Shapiro & Meathe], **53:** 505
pressure
arterial
acute angulation of catheter in (CO) [Bromley & Moorthy], **59:** 367
to avoid myocardial ischemia during halothane anesthesia for coronary-artery revascularization (OA) [Lieberman, Orkin, Jobes & Schwartz], **59:** 36
hazard of disposable diaphragm domes and (CO) [Burns], **52:** 285
pulmonary arterial
catheter in, for detection and treatment of venous air embolism (OA) [Marshall & Bedford], **52:** 131
catheterization (CO) [Morley, Cullen & Silverstein], **52:** 96
in Eisenmenger's syndrome (CO) [Noble, Devitt & Byrick], **58:** 589
in Eisenmenger's syndrome (CO) [Robinson], **58:** 588
in prolonged pulmonary-artery catheterization in dog, thrombocytopenia and altered platelet kinetics associated with (OA) [Richman, Kim & Marshall], **53:** 101
pressure, and detection of end-exhalation period by airway thermistor (CR) [Oden, Mitchell & Benumof], **58:** 467
sterile cover for repositioning catheter in (CO) [Erceg], **52:** 193

from triple-lumen catheters, valve simplifies (CO) [Kotter], **52:** 284
vascular
and occlusion-shake test for pulmonary artery catheters (CO) [DiNardo & Satwicz], **61:** 349
pulmonary artery catheter sheath malfunction with sternotomy (CO) [Noel], **61:** 634
simplified pulmonary artery/right atrial pressure monitoring system in (CO) [Gardner & Parker], **54:** 553
in prevention of patient abuse (EV) [Betts & Nicholson], **58:** 115
pulmonary artery catheters
malfunction during (CO) [Campbell & Schwartz], **60:** 513
in review of catheterization in 6,245 patients (OA) [Shah, Rao, Laughlin & El-Etr], **61:** 271
pulmonary artery wedge pressures
differences in, obtained by balloon inflation *versus* impaction techniques (CR) [Royster, Johnson, Prough, Johnston & Beamer], **61:** 339
resistance
pulmonary vascular, improved (CR) [Yelderman, New, Rosenthal & Ream], **52:** 365
respirations
with gauze thread during regional anesthesia (CO) [Moore], **61:** 623
during regional anesthesia (CO) [Jain & Gold], **60:** 166
right atrial pressure
in study of atrial pressures in seated position (OA) [Perkins-Pearson, Marshall & Bedford], **57:** 493
sensory level
during epidural or spinal anesthesia (CO) [Andrade & Wikinski], **52:** 189
somatosensory
of spinal cord compression, and migrating disc complicating spinal decompression in achondroplastic dwarf (CR) [McPherson, North, Udvarhelyi & Rosenbaum], **61:** 764
somatosensory cortical evoked potential
in assessment of spinal cord function during correction of scoliosis (CR) [Grundy, Nash & Brown], **54:** 249
somatosensory evoked potentials
changes in position-related brain stem ischemia (CR) [McPherson, Szymanski & Rogers], **61:** 88
detection of, brachial plexus dysfunction by (CR) [Mahla, Long, McKennett, Green & McPherson], **60:** 248
intraoperative loss of, predicts loss of spinal cord (CR) [Grundy, Nelson, Doyle & Procopio], **57:** 321
during surgical correction of flexion deformity of cervical spine (CR) [Ovassapian, Land, Schafer, Cerullo & Zalkind], **58:** 370
stimulator
nerve
in assessment of neuromuscular blockade (CR) [Stiffel, Hameroff, Blitt & Cork], **52:** 436
in comparison of edrophonium and neostigmine pharmacokinetics when antagonizing *d*-tubocurarine neuromuscular blockade in man (OA) [Morris, Cronnelly, Miller, Stanski & Fahey], **54:** 399
and dose-response curve to d-tubocurarine in man (OA) [Ali & Savarese], **52:** 36
peripheral nerve, electrode polarity and (CR) [Berger, Gravenstein & Munson], **56:** 402
posttetanic count in, in evaluation of intense nondepolarizing neuromuscular blockade (CR) [Viby-Mogensen, Howardy-Hansen, Chræmmer-Jorgensen, Ørding, Engbæk and Nielsen], **55:** 458
in study of edrophonium onset and duration of antagonism and atropine requirement during halothane anesthesia (OA) [Cronelly, Morris & Miller], **57:** 261
in study of train-of-four response in fast and slow muscles (OA) [Day, Blake, Standaert & Dretchen], **58:** 414
and tactile evaluation of posttetanic count (PTC) (CR) [Howardy-Hansen, Viby-Mogensen, Gottschau, Skovgaard, Chræmmer-Jørgensen & Engbæk], **60:** 372
twitch, tetanus and train-of-four as indices of recovery from nondepolarizing neuromuscular blockade (OA) [Ali, Savarese, Lebowitz & Ramsey], **54:** 294
and neuromuscular response of infants to continuous infusion of succinylcholine (OA) [Goodsouzian & Liu], **60:** 97
tactile posttetanic count
tactile evaluation of (CR) [Howardy-Hansen, Viby-Mogensen, Gottschau, Skovgaard, Chræmmer-Jørgensen & Engbæk], **60:** 372
temperature
faulty temperature probe in (CO) [Chapin & Moravec], **52:** 187
inspired gas, in prevention of hypothermia after cardiopulmonary bypass in man (CO) [Caldwell, Crawford & Sinclair], **55:** 86
rectal
for indication of adequate rewarming during cardiopulmonary bypass (CO) [Azar], **55:** 189
train-of-four
posttetanic count in, in evaluation of intense nondepolarizing neuromuscular blockade (CR) [Viby-Mogensen, Howardy-Hansen, Chræmmer-Jorgensen, Ørding, Engbæk & Nielsen], **55:** 458
and tactile evaluation of posttetanic count (PTC) (CR) [Howardy-Hansen, Viby-Mogensen, Gottschau, Skovgaard, Chræmmer-Jørgensen & Engbæk], **60:** 372
transesophageal echocardiography
detection of paradoxical air embolism by (CR) [Furuya & Okumura], **60:** 374
during external chest compression in humans (CO) [Uenishi, Sugimoto, Sawada, Terai, Yoshioka & Sugimoto], **60:** 618
vapor concentration
using piezoelectric detector: evaluation of Engstrom EMMA (LR) [Hayes, Westenskow & Jordan], **59:** 435
vascular
air-filled balloon-tipped catheters in, *in vivo* response of, to nitrous oxide (LR) [duBoulay & Nahrwold], **57:** 530
catheter doubling in left main pulmonary artery in (CO) [Wilson, Moorthy, Mahomed & Vix], **60:** 266
of pressure-volume relationships of pulmonary artery catheter balloon (CR) [McDonald & Zaidan], **59:** 240
vascular pressures
during cardiopulmonary bypass (CO) [Granwehr], **55:** 338
continuous flush, hazard of, in infants (CR) [Morray & Todd], **58:** 187
Cordis introducers in, CVP measurement with fluid infusion (CO) [Brown], **55:** 485
ventilation
and measurement of functional residual capacity during mechanical ventilation by simultaneous exchange of two insoluble gases (LR) [Ozanne, Zinn & Fairley], **54:** 413
during partial curarization in awake subjects (OA) [Gal & Goldberg], **54:** 141
remote
simple device for, in pediatric patients (CO) [Saunders & Humphrey], **55:** 609
requirements of critically ill neonates (OA) [Epstein & Hyman], **53:** 379

visual evoked potentials
in humans, effect of hypothermia on (CR) [Russ, Kling, Loesevitz & Hempelman], **61:** 207
Monitors, *See under* Equipment
Monoamines, *See under* Brain
Morbidity, *See under* Complications
Morphine, *See under* Analgesics, narcotic; Anesthetic techniques, peridural, epidural; Anesthetic techniques, intrathecal, spinal; Anesthetics, intravenous; Anesthetics, narcotic; Pharmacokinetics
Mouth occlusion pressure, *See under* Ventilation
Moyamoya disease, *See under* Brain
Mucocutaneous lymph node syndrome, *See under* Complications
Muscarinic receptors, *See under* Receptors
Muscle
biopsy
in diagnosis of malignant hyperthermia (OA) [Rosenberg, Fisher, Reed & Addonizio], **55:** 621
end plate
effect of spinal cord transection on, in rat (OA) [Carter, Sokoll & Gergis], **55:** 542
gastrocnemius
train-of-four response in: effect of *d*-tubocurarine, pancuronium, and vecuronium (OA) [Day, Blake, Standaert & Dretchen], **58:** 414
lesions of
response of patients with, to muscle relaxants (RA) [Azar], **61:** 173
masseter
spasm
with anesthesia: incidence and implications (CR) [Schwartz, Rockoff & Koka], **61:** 772
heralds malignant hyperthermia (CO) [Badgwell & Heavner], **61:** 230
skeletal
adductor pollicis
observations made in, may not be applicable to other muscle groups (CO) [Weber], **61:** 353
blood flow, during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Steen & Milde], **58:** 18
contractility
in Hallervorden-Spatz disease, and anesthetic management (CR) [Roy, McLain, Wise & Shaffner], **58:** 382
and site of action of verapamil (CO) [Durant, Nguyen & Katz], **61:** 784
and site of action of verapamil (CO) [Foldes], **61:** 783
creatine phosphokinase, serum, activity in children, postoperative increases in, failure of "self-taming" doses of succinylcholine to inhibit (CR) [Plötz & Braun], **56:** 207
denervation
causing resistance to pancuronium (OA) [Gronert], **55:** 547
and relaxant resistance: pharmacokinetics vs. pharmacodynamics (CO) [Gronert], **57:** 143
and relaxant resistance: pharmacokinetics vs. pharmacodynamics (CO) [Holley], **57:** 142
in upper-motor-neuron lesions, monitoring neuromuscular block may be unreliable in patients with (CR) [Graham], **52:** 74
disuse atrophy, with resistance to pancuronium (OA) [Gronert], **55:** 547
disuse atrophy
relaxant resistance in: pharmacokinetics vs. pharmacodynamics (CO) [Gronert], **57:** 143
relaxant resistance in: pharmacokinetics vs. pharmacodynamics (CO) [Holley], **57:** 142
Duchenne muscular dystrophy, malignant hyperthermia in (CR) [Brownell, Paasuke, Elash, FowLow, Seagram, Diewold & Friesen], **58:** 180
dystonia, anesthetic management in (CR) [Roy, McLain, Wise & Shaffner], **58:** 382
fasciculation
obliteration of, comparative evaluation of pretreatment with nondepolarizing neuromuscular blockers in, prior to administration of succinylcholine (CR) [Blitt, Carlson, Rolling, Hameroff & Otto], **55:** 687
postoperative, in outpatients, myalgia in, does "self-taming" decrease? (CO) [Siler, Cook, Ricca & Verma], **52:** 98
Hallervorden-Spatz disease, anesthetic management in (CR) [Roy, McLain, Wise & Shaffner], **58:** 382
in hypokalemic familial periodic paralysis (CR) [Melnick, Chang, Larson & Bedger], **58:** 263
malignant hyperthermic human, low molecular weight proteins in (LR) [Blanck, Fisher, Thompson & Muldoon], **61:** 589
metabolism, during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Steen & Milde], **58:** 18
oxygen consumption, during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Steen & Milde], **58:** 18
smooth
and acid-base interactions with noradrenaline-induced contractile response of rabbit isolated aorta (OA) [Stokke, Andersen, Brinklov, Nedergaard, Hole & Rasmusen], **60:** 400
trachea
differential effects of halothane on (OA) [Korenaga, Takeda & Ito], **60:** 309
vascular
effects of sodium nitroprusside on, antagonism by cyanide (OA) [Kruszyna, Kruszyna & Smith], **57:** 303
soleus
train-of-four response in: effect of *d*-tubocurarine, pancuronium, and vecuronium (OA) [Day, Blake, Standaert & Dretchen], **58:** 414
spasm
masseter, heralds malignant hyperthermia (CO) [Badgwell & Heavner], **61:** 230
vascular
and acid-base interactions with noradrenaline-induced contractile response of rabbit isolated aorta (OA) [Stokke, Andersen, Brinklov, Nedergaard, Hole & Rasmusen], **60:** 400
Muscle pain
postoperative
succinylcholine-induced (OA) [Caplan, Bruce, Patel & Turndorf], **59:** 202
Muscle relaxants, *See also under* Neuromuscular relaxants
skeletal
Duchenne's muscular dystrophy
and malignant hyperthermia: another warning (CO) [Roseberg & Heiman-Patterson], **59:** 362
hemiparesis
following dural puncture (CR) [Wedel & Mulroy], **59:** 475
nemaline myopathy
neuromuscular blockade in patient with (CR) [Heard & Kaplan], **59:** 598
Mushin, W. W., Rendell-Baker, L., Thompson, P. W. and Mapelson, W. W.
Automatic Ventilation of the Lungs, 3rd edition (BR), **54:** 175
Mutagenicity, *See under* Toxicity
Myalgia, *See under* Complications; Pain
Myasthenia gravis, *See under* Complication; Neuromuscular transmission

Myelogram, *See under* Cerebrospinal fluid
Myocardial blood flow, *See under* Heart
Myocardial function, *See under* Heart
Myocardial infarction, *See under* Complications, Heart
Myocardial ischemia, *See under* Complications; Heart
Myocardium, *See under* Heart
Myoglobinemia, *See under* Complications

N

Na, K-ATPase, *See under* Enzymes
NAD/NADH ratio, *See under* Metabolism
Nair, S.
Computers in Critical Care and Pulmonary Medicine-Volume III (BR), **61:** 486
Nalbuphine, *See under* Analgesics, narcotic
Naloxone, *See under* Antagonists, narcotic
Naltrexone, *See under* Antagonists, narcotic
Narcotic analgesics, *See under* Analgesics, narcotic
Narcotic antagonists, *See under* Antagonists, narcotic
Narcotics, *See under* Analgesia; Analgesics, narcotic; Anesthetic techniques, epidural; Anesthetics, intravenous
Nasal oxygen prongs, *See under* Equipment
Nasogastric tubes, *See under* Equipment
Nasopharyngeal insufflation, *See under* Anesthetic techniques
Nasotracheal guide, *See under* Equipment
Nasotracheal intubation, *See under* Equipment; Intubation
Nasotracheal tubes, *See under* Equipment
Nausea, *See under* Complications; Vomiting
Neck dissection, *See under* Surgery
Neck surgery, *See under* Surgery
Needles, *See under* Equipment
Nemaline myopathy, *See under* Muscle, skeletal
Neodymium-YAG, *See under* Equipment, laser; Surgery, laser
Neomycin, *See under* Antibiotics
Neonatal anesthesia, *See under* Anesthesia
Neonatal neurobehavior, *See under* Neurobehavior
Neonatal sepsis, *See under* Complications
Neonate(s), *See under* Anesthesia, pediatric
Neostigmine, *See under* Antagonists, neuromuscular relaxants; Enzymes, cholinesterase
Nephrostolithotomy, ultrasonic, *See under* Surgery
Nephrotoxicity, *See under* Kidney
Nerve block, *See under* Anesthetic techniques, regional; Nerve(s), block
Nerve damage, *See under* Position
Nerve stimulator, *See under* Equipment, electrical; Monitoring; Neuromuscular transmission
Nerve(s)
accessory
permanent paralysis of, after cannulation of internal jugular vein (CO) [Zmyslowski & Lena], **58:** 583
activity
recording
in conscious and isoflurane-anesthetized dogs (OA) [Seagard, Hoop, Bosnjak, Osborn & Kampine], **61:** 266
airway
and muscle, differential effects of halothane on (OA) [Korenaga, Takeda & Ito], **60:** 309
axon
and diffusional delay in local anesthetic block *in vitro* (OA) [Fink & Cairns], **61:** 555
lidocaine and (OA) [Fink], **57:** 167
and role of glucose or potassium lack in nerve block (LR) [Fink], **55:** 172
block
brachial plexus sheaths in, and functional anatomy of (OA) [Thompson & Rorie], **59:** 117
celiac plexus, improved technique for, may be more theoretical than real (CO) [Moore, Bush & Burnett], **57:** 347
celiac plexus, improved technique for, may be more theoretical than real (CO) [Singler], **57:** 348
stellate, using physiologic saline solution (CR) [Benzon, Linde, Hawes & Brunner], **52:** 511
conduction
in differential peripheral axon block with lidocaine, unit studies in cervical vagus nerve (OA) [Fink & Cairns], **59:** 182
and differential sensitivities of nerve fibers to local anesthetics, conclusions concerning, may not be justified (CO) [Galindo], **55:** 482
and differential sensitivities of nerve fibers to local anesthetics, conclusions concerning, may not be justified (CO) [Gissen], **55:** 483
and diffusional delay in local anesthetic block *in vitro* (OA) [Fink & Cairns], **61:** 555
frog sciatic nerve, interactions of lidocaine and calcium in blocking compound action potential of (OA) [Saito, Akutagawa, Kitahata, Stagg, Collins & Scurlock], **60:** 205
by lidocaine in individual afferent myelinated and unmyelinated axons (AO) [Fink & Cairns], **60:** 111
lidocaine and (OA) [Fink], **57:** 167
local anesthetics in differential block of (EV) [deJong], **53:** 443
of mammalian nerve fibers with local anesthetic agents (OA) [Gissen, Covino & Gregus], **53:** 467
and new approach to differential peripheral nerve fiber block: Na^+, K^+-ATPase inhibition (OA) [Fink & Cairns], **59:** 172
and role of glucose or potassium lack in nerve block (LR) [Fink], **55:** 172
and unitary explanation for differential nerve block, as elusive (CO) [Fink], **55:** 191
conduction velocity
reported, clarified and confirmed (CO) [Fink & Cairns], **60:** 515
reported, clarified and confirmed (CO) [Heavner], **60:** 514
damage
cranial nerve, and cardiorespiratory sequelae of surgical procedures involving the posterior fossa (CR) [Artru, Cucchiara & Messick], **52:** 83
paralysis, after cannulation of internal jugular vein (CO) [Hoffman], **58:** 583
permanent paralysis of C-5, after cannulation of internal jugular vein (CO) [Frasquet & Belda], **54:** 528
position, and functional anatomy of cervical sympathetic trunk (CO) [McLeskey & Jaffe], **57:** 139
position, and functional anatomy of cervical sympathetic trunk (CO) [Vandam], **57:** 139
depolarization
and role of glucose or potassium lack in nerve block (LR) [Fink], **55:** 172
differential
with lidocaine-dextran solutions (CO) [Loder], **53:** 526
by lidocaine in individual afferent myelinated and unmyelinated axons (OA) [Fink & Cairns], **60:** 111
of mammalian nerve fibers with local anesthetic agents (OA) [Gissen, Covino & Gregus], **53:** 467
peripheral, by local anesthetics in cat (OA) [Ford, Raj, Singh, Regan & Ohlweiler], **60:** 28
role of glucose or potassium lack in (LR) [Fink], **55:** 172
and differential effects of hypoosmotic hyponatric swelling on A and C fibers (OA) [Schimek, Sumi & Fink], **60:** 198
differential, by local anesthetics (EV) [deJong], **53:** 443

and differential sensitivities of nerve fibers to local anesthetics, conclusions concerning, may not be justified (CO) [Galindo], **55:** 482
and differential sensitivities of nerve fibers to local anesthetics, conclusions concerning, may not be justified (CO) [Gissen], **55:** 483
differential, unitary explanation of, remains elusive (CO) [Fink], **55:** 191
frog sciatic nerve, interactions of lidocaine and calcium in blocking compound action potential of (OA) [Saito, Akutagawa, Kitahata, Stagg, Collins & Scurlock], **60:** 205
function
nitrous oxide effects on, studies of, in man and rat (OA) [Dyck, Grina, Lambert, Calder, Oviatt, Rehder, Lund & Skau], **53:** 205
ganglionic transmission
effects of isoflurane on (OA) [Seagard, Elegbe, Hopp, Bosnjak, von Colditz, Kalbfleisch & Kampine], **59:** 511
hypoglossal
changes in activity of, in response to increasing depth of anesthesia in cats (OA) [Nishino, Shirahata, Yonezawa & Honda], **60:** 19
membrane
of *Aplysia californica*, halothane effects on, hydrostatic pressure does not antagonize (OA) [Parmentier & Bennett], **53:** 9
effects of halothane on (OA) [Bosnjak, Seagard, Wu & Kampine], **57:** 473
metabolism
and paradoxical preservation of conduction by lidocaine (OA) [Fink], **57:** 167
and role of glucose or potassium lack in nerve block (LR) [Fink], **55:** 172
monitoring, *See under* Monitoring
peripheral
lesions of
response of patients with, to muscle relaxants (RA) [Azar], **61:** 173
phrenic
changes in activity of, in response to increasing depth of anesthesia in cats (OA) [Nishino, Shirahata, Yonezawa & Honda], **60:** 19
potential
in differential peripheral axon block with lidocaine, unit studies in cervical vagus nerve (OA) [Fink & Cairns], **59:** 127
and new approach to differential peripheral nerve fiber block: Na^+, K^+-ATPase inhibition (OA) [Fink & Cairns], **59:** 127
and paradoxical preservation of conduction by lidocaine (OA) [Fink], **57:** 167
and role of glucose or potassium lack in nerve block (LR) [Fink], **55:** 172
toxicity
nitrous oxide, studies of, in man and rat (OA) [Dyck, Grina, Lambert, Calder, Oviatt, Rehder, Lund & Skau], **53:** 205
Nesacaine, *See under* Anesthetics, local, chloroprocaine
Netter, F. H.
Respiratory System (BR), **52:** 459
Neural toxicity, *See under* Toxicity
Neurobehavior, neonatal
effects of inhalation analgesia for vaginal delivery on (OA) [Stefani, Hughes, Shnider, Levinson, Abboud, Henriksen, Williams & Johnson], **56:** 351
neurologic and adaptive capacity score of (NACS), critique of (EV) [Tronick], **56:** 338
new neurologic and adaptive capacity scoring system for evaluation of (OA) [Amiel-Tison], **56:** 340
in vecuronium and pancuronium administered during cesarean section (OA) [Dailey, Fisher, Shnider, Baysinger, Shinohara, Miller, Abboud & Kim], **60:** 569
Neurolept anesthesia, *See under* Anesthetic techniques; Anesthetics, intravenous
Neurologic surgery, *See under* Surgery
Neuromuscular antagonists, *See under* antagonists, neuromuscular relaxants
Neuromuscular blockade, *See under* Measurement techniques; Monitoring; Neuromuscular relaxants
Neuromuscular junction
antibiotics (OA) [Sokoll & Gergis], **55:** 184
blockade of
competitive, relationship between receptor occlusion and frequency sweep electromyogram during (OA) [Yodlowski & Mortimer], **54:** 23
comparison of neuromuscular blocking and vagolytic effects of ORG NC45 and pancuronium at (OA) [Lee Son, Waud & Waud], **55:** 12
lesions of
response of patients with, to muscle relaxants (RA) [Azar], **61:** 173
and speed of onset of blockade, molecular weight of cation as determinant of (CO) [Ramzan], **57:** 247
in study of chronic potassium depletion and sensitivity to tubocurarine (OA) [Waud, Mookerjee & Waud], **57:** 111
Neuromuscular relaxants
action of, on adductor pollicis, may not be applicable to other muscle groups (CO) [Weber], **61:** 353
alcuronium
reaginic antibodies to (OA) [Fisher], **52:** 318
atracurium
additional information needed (CO) [Nigrovic & Koechel], **60:** 606
administered by infusion, stability of (CO) [Fisher, Cantell & Miller], **61:** 347
clinical pharmacology of (RA) [Miller, Rupp, Fisher, Cronnelly, Fahey & Sohn], **61:** 444
clinical use of, during N_2O/O_2, fentanyl and enflurane anesthesia regimens (CR) [Ramsey, White, Stullken, Lineberry & Allen], **61:** 328
in normal doses may release histamine (CO) [Fox], **60:** 386
in patients with and without renal failure (OA) [Fahey, Rupp, Fisher, Miller, Sharma, Canfell, Castagnoli & Hennis], **61:** 699
requirement for stable muscle relaxation during surgery, evaluation of (CR) [d'Hollander, Luyckx, Barvais & DeVille], **59:** 237
safety and efficacy of, in adolescents and children anesthetized with halothane (CR) [Goudsouzian, Liu, Coté, Gionfriddo & Rudd], **59:** 459
in surgical patients receiving balanced or isoflurane anesthesia (OA) [Sokoll, Gergis, Mehta, Ali & Lineberry], **58:** 450
systemic vascular responses to, during enflurane-nitrous oxide anesthesia (OA) [Hilgenberg, Stoelting & Harris], **58:** 242
BW A444U, clinical pharmacology of (OA) [Savarese, Ali, Basta, Sunder, Moss, Gionfriddo, Lineberry, Wastila, El-Sayad, Montague & Braswell], **58:** 333
cardiovascular effects, evaluated in study of BW A444U (OA) [Savarese, Ali, Basta, Sunder, Moss, Gionfriddo, Lineberry, Wastila, El-Sayad, Montague & Braswell], **58:** 333

curare
discovery of, by Gill-Merrill expedition (SA) [Humble], **57:** 519
dantrolene
for child with asthma and presumed susceptibility to malignant hyperthermia (CR) [Vaughn, Casson & Hirshman], **58:** 283
in controversies in malignant hyperthermia (EV) [Gronert], **59:** 273
depression of skeletal muscle in cat induced by reversal of (OA) [Lee, Durant, Au & Katz], **54:** 61
dose response in awake man: implications for management of malignant hyperthermia (OA) [Flewellen, Nelson, Jones, Arens & Wagner], **59:** 275
dose response in malignant hyperthermia-susceptible (MHS) swine (OA) [Flewellen & Nelson], **52:** 303
effect of, on neuromuscular block by *d*-tubocurarine and subsequent antagonism by neostigmine in the rabbit (OA) [Flewellen, Nelson & Bee], **52:** 126
in human malignant hyperthermia (OA) [Kolb, Horne & Martz], **56:** 254
inhibitory effect of, on halothane-succinylcholine-induced myoglobinemia in children (CR) [Asari, Inoue, Maruta & Hirose], **61:** 332
malignant hyperthermia following pretreatment with, puzzle of (EV) [Gronert], **54:** 1
modification of ryanodine toxicity by, in model of malignant hyperthermia (OA) [Fairhurst, Hamamoto & Macri], **53:** 199
oral and intravenous pretreatment with, malignant hyperthermia after, in patient susceptible to malignant hyperthermia (CR) [Ruhland & Hinkle], **60:** 159
placental transfer of (OA) [Morison], **59:** 265
preoperative oral administration of, malignant hyperthermia following (CR) [Fitzgibbons], **54:** 73
prophylactic and therapeutic doses of, for malignant hyperthermia (CO) [Flewellen & Nelson], **61:** 477
prophylactic and therapeutic doses of, for malignant hyperthermia (CO) [Hinkle & Ruhland], **61:** 477
prophylactic use of, for malignant hyperthermia (CO) [Wingard], **58:** 489
fasciculations, succinylcholine-induced, and intragastric pressure during induction of anesthesia (CR) [Muravchick, Burkett & Gold], **55:** 180
gallamine
in comparative evaluation of pretreatment with nondepolarizing neuromuscular blockers prior to administration of succinylcholine (CR) [Blitt, Carlson, Rolling, Hameroff & Otto], **55:** 687
does not retain potency at hypothermia (OA) [Horrow & Bartkowski], **58:** 357
and other neuromuscular blocking agents, interaction of, on indirectly elicited muscle twitch (OA) [Waud & Waud], **61:** 420
reaginic antibodies to (OA) [Fisher], **52:** 318
measurement of response, to neostigmine, pyridostigmine and edrophonium (OA) [Ferguson, Egerszegi & Bevan], **53:** 390
measurement response, reliability of, in patients with upper-motor-neuron lesions (CR) [Graham], **52:** 74
metocurine
cardiovascular effects of, in patients with aortic stenosis (CR) [Zaidan & Kaplan], **56:** 395
in comparative evaluation of pretreatment with nondepolarizing neuromuscular blockers prior to administration of succinylcholine (CR) [Blitt, Carlson, Rolling, Hameroff & Otto], **55:** 687
and *d*-tubocurarine, pharmacodynamics and pharmacokinetics of, in humans, compared (OA) [Matteo, Brotherton, Nishitateno, Khambatta & Dias], **57:** 183
hyposensitivity, burn-related, elevated plasma binding cannot account for (OA) [Leibel, Martyn, Szyfelbein & Miller], **54:** 378
does not retain potency at hypothermia (OA) [Horrow & Bartkowski], **58:** 357
effects of pretreatment with, on fentanyl-induced rigidity (CR) [Jaffe & Ramsey], **58:** 562
and other neuromuscular blocking agents, interaction of, on indirectly elicited muscle twitch (OA) [Waud & Waud], **61:** 420
pancuronium plus, hemodynamic effects of, in patients taking propranolol (CR) [McDonald & Zaidan], **60:** 359
pharmacokinetics and pharmacodynamics of, in humans with and without renal failure (OA) [Brotherton & Matteo], **55:** 273
recovery from, twitch, tetanus and train-of-four as indices of (OA) [Ali, Savarese, Lebowitz & Ramsey], **54:** 294
and molecular weight of cation as determinant of speed of onset of neuromuscular blockade (CO) [Ramzan], **57:** 247
muscle relaxants
narcotics and histamine release by, in humans (MI) [Moss & Rosow], **59:** 300
neuromuscular blockade
prolonged, in anephric patients, hemodialysis as treatment for (CO) [Lavine & Hindin], **59:** 264
nondepolarizing
pharmacokinetics and dynamics of, more on (CO) [Kopman], **52:** 454
pharmacokinetics and dynamics of, more on (CO) [Stanski & Sheiner], **52:** 454
ORG-NC45, ***See under*** **Neuromuscular relaxants, vecuronium**
pancuronium
beta-adrenergic effect of (CO) [Pinaud & Souron], **60:** 512
blockade in anesthetized humans, effects of hypercarbia and hypocarbia on (OA) [Gencarelli, Swen, Koot & Miller], **59:** 376
in comparative evaluation of pretreatment with nondepolarizing neuromuscular blockers prior to administration of succinylcholine (CR) [Blitt, Carlson, Rolling, Hameroff & Otto], **55:** 687
disuse atrophy with resistance to (OA) [Gronert], **55:** 547
dysrhythmias following administration of, in patients receiving digitalis (CR) [Bartolone & Rao], **58:** 567
effect of, and train-of-four response in fast and slow muscles (OA) [Day, Blake, Standaert & Dretchen], **58:** 414
effects of acute and chronic hydrocortisone treatment on, in anesthetized cat (OA) [Durant, Briscoe & Katz], **61:** 144
effects of, on oxygen consumption in normoxic children after cardiac surgery (OA) [Palmisano, Fisher, Willis, Gregory & Ebert], **61:** 518
effects of pretreatment with, on fentanyl-induced rigidity (CR) [Jaffe & Ramsey], **58:** 562
-fentanyl anesthesia, failure of intravenous nitroglycerin to prevent intraoperative myocardial ischemia during (OA) [Thomson, Mutch & Culligan], **61:** 385
hemodynamic and gas exchange effects of, in sedated patients with respiratory failure (CR) [Bishop], **60:** 369
human dose-response curves for (LR) [Donlon, Savarese, Ali & Teplik], **53:** 161

-induced neuromuscular block by succinylcholine, modification of, in humans (CR) [Buzello, Krieg, Kuhls & Schlickewei], **59:** 583
long-acting analogue of (CO) [Boros], **58:** 108
neostigmine and edrophonium as antagonists of, in infants and children (OA) [Meakin, Sweet, Bevan & Bevan], **59:** 316
neostigmine, pyridostigmine and edrophonium as antagonists of (OA) [Ferguson, Egerszegi & Bevan], **53:** 390
in neuromuscular blockade in patient with nemaline myopathy (CR) [Heard & Kaplan], **59:** 598
neuromuscular blockade by, potentiation by verapamil (OA) [Durant, Nguyen & Katz], **60:** 298
neuromuscular effects of, in burned children (CR) [Martyn, Liu, Szyfelbein, Ambalabanar & Goudsouzian], **59:** 571
and ORG NC45, heart rate and blood pressure changes after, during halothane and enflurane anesthesia (CR) [Gregoretti, Sohn & Sia], **56:** 392
and ORG-NC45, neuromuscular blocking and vagolytic effects of, compared (OA) [Lee Son, Waud & Waud], **55:** 12
and other neuromuscular blocking agents, interaction of, on indirectly elicited muscle twitch (OA) [Waud & Waud], **61:** 420
and pancuronium plus metocurine, hemodynamic effects of, in patients taking propranolol (CR) [McDonald & Zaidan], **60:** 359
partition coefficient vs. dissociation rate constant as determinant of duration of neuromuscular blockade with (CO) [Feldman], **54:** 350
pharmacokinetics of (CO) [Cronnelly, Fisher & Miller], **60:** 509
pharmacokinetics of (CO) [Norman], **60:** 509
pharmacokinetics, pharmacodynamics, and dose-response relationships of, in control and elderly subjects (OA) [Duvaldestin, Saada, Berger, D'Hollander & Desmonts], **56:** 36
posttetanic count (PTC) during use of, new method of evaluating intense nondepolarizing neuromuscular blockade (CR) [Viby-Mogensen, Howardy-Hansen, Chraemmer-Jørgensen, Ørding, Engbaek & Nielsen], **55:** 458
potentiation of effect of, on skeletal muscle (CO) [Durant, Nguyen & Katz], **61:** 784
potentiation of effect of, on skeletal muscle (CO) [Foldes], **61:** 783
in prevention of rigidity during fentanyl-oxygen induction of anesthesia (CR) [Hill, Nahrwold, de Rosayro, Knight, Jones & Bolles], **55:** 452
recovery from, twitch, tetanus and train-of-four as indices of (OA) [Ali, Savarese, Lebowitz & Ramsey], **54:** 294
regional hemodynamic effects of, comparative study of (OA) [Saxena, Dhasmana & Prakash], **59:** 102
resistance to, in disuse atrophy (CO) [Gronert], **57:** 143
resistance to, in disuse atrophy (CO) [Holley], **57:** 142
response of patients with neuromuscular disorders to (RA) [Azar], **61:** 173
retains potency at hypothermia (OA) [Horrow & Bartkowski], **58:** 357
reversal of blockade by, in neonates and infants, leg lift and maximum inspiratory force as clinical signs of (CR) [Mason & Betts], **52:** 441
in study of clinical pharmacology of ORG NC45 (Norcuron™) (OA) [Fahey, Morris, Miller, Sohn, Cronnelly & Gencarelli], **55:** 6
in study of lung volume and VA/Q distribution response to intravenous versus inhalation anesthesia in sheep (OA) [Dueck, Rathbun & Greenburg], **61:** 55
in study of tactile evaluation of posttetanic count (PTC) (CR) [Howardy-Hansen, Viby-Mogensen, Gottschau, Skovgaard, Chraemmer-Jørgensen & Engbaek], **60:** 372
and succinylcholine, blockade with, recovery of neuromuscular function in perfused rat diaphragm after (OA) [Bartkowski], **58:** 409
d-tubocurarine, and epinephrine-induced arrhythmias during halothane anesthesia (OA) [Schick, Chapin, Munson & Kushins], **52:** 207
variations in, induced by cardiopulmonary bypass with hypothermia (OA) [d'Hollander, Duvaldestin, Henzel, Nevelsteen & Bomblet], **58:** 505
and vecuronium, cardiovascular effects of, in patients undergoing coronary artery bypass grafting (OA) [Morris, Cahalan, Miller, Wilkinson, Quasha & Robinson], **58:** 438
and vecuronium, pharmacokinetics and pharmacodynamics of, in anesthetized human (OA) [Cronnelly, Fisher, Miller, Gencarelli, Nguyen-Gruenke & Castagnoli], **58:** 405
and vecuronium administered during cesarean section (OA) [Dailey, Fisher, Shnider, Baysinger, Shinohara, Miller, Aboud & Kim], **60:** 569

pancuronium partition
coefficient vs. dissociation rate constant as determinant of duration of neuromuscular blockade with (CO) [Stanski], **54:** 351

pipecurium
more information about (CO) [Boros], **58:** 108

succinylcholine
administration of, reduction in REEP following (OA) [Bergman], **57:** 14
anaphylactoid reaction to, upper airway edema as (CR) [Cohen, Liu & Marx], **56:** 467
in assessment of neuromuscular blockade (CR) [Stiffel, Hameroff, Blitt & Cork], **52:** 436
and cerebral metabolism during porcine malignant hyperthermia (OA) [Artru & Gronert], **53:** 121
for cesarean section, prolonged apnea following (CO) [Abouleish, MacMurdo, Caffo & Lubin], **55:** 478
changes in serum potassium induced by, effect of spinal cord transection on, in rat (OA) [Carter, Sokoll & Gergis], **55:** 542
during chloroprocaine epidural block, in postpartum patient with abnormal pseudocholinesterase (CR) [Kuhnert, Philipson, Pimental & Kuhnert], **56:** 477
comparative evaluation of pretreatment with nondepolarizing neuromuscular blockers prior to administration of (CR) [Blitt, Carlson, Rolling, Hameroff & Otto], **55:** 687
continuous infusion of, neuromuscular response of infants to (OA) [Goodsouzian & Liu], **60:** 97
defense of use of *d*-tubocurarine prior to, in obstetrics (CO) [Marx & Bassell], **59:** 157
for depolarization, in studies of relationship between receptor occlusion and frequency sweep electromyogram during competitive neuromuscular blockade (OA) [Yodlowski & Mortimer], **54:** 23
divided doses of, failure of, to reduce incidence of muscle pains (CR) [Wilson & Dundee], **52:** 273
duration of action of, correlation of, with plasma cholinesterase activity in subjects with genotypically normal enzyme (CR) [Viby-Mogensen], **53:** 517
dysrhythmias following administration of, in patients receiving digitalis (CR) [Bartolone & Rao], **58:** 567
effects of acute and chronic hydrocortisone treatment on, in anesthetized cat (OA) [Durant, Briscoe & Katz], **61:** 144
effects of furosemide on blockade produced by (OA) [Scappaticci, Ham, Sohn, Miller & Dretchen], **57:** 381

fasciculations induced by, in toxemic parturients, magnesium sulfate in prevention of (CR) [DeVore & Asrani], **52:** 76
hyperkalemia induced by, in patients with ruptured cerebral aneurysms (CR) [Iwatsuki, Kuroda, Amaha & Iwatsuki], **53:** 64
hyperkalemia induced by, possible mechanism of (CO) [Gronert], **53:** 356
increase in serum potassium following, in dogs with beta blockade (OA) [McCammon & Stoelting], **61:** 723
-induced fasciculations and intragastric pressure during induction of anesthesia (CR) [Muravchick, Burkett & Gold], **55:** 180
-induced fasciculations, recording of (CO) [Collier], **56:** 409
-induced fasciculations, recording of (CO) [Muravchick], **56:** 410
infusion may cause asystole (CO) [Greenfeld & Rosenberg], **52:** 378
intramuscular, dose response to, in children (CR) [Liu, DeCook, Goudsouzian, Ryan & Liu], **55:** 599
intraocular pressure and (CO) [Donlon & Lang], **52:** 99
long-term infusion of, during isoflurane anesthesia (OA) [Donati & Bevan], **58:** 6
masseter spasm following (CR) [Schwartz, Rockoff & Koka], **61:** 772
mechanism of tracheal constriction by (OA) [Koga, Downes, Leon & Hirshman], **55:** 138
modification of pancuronium-induced non-depolarizing neuromuscular block by, in humans (CR) [Buzello, Krieg, Kuhls & Schlickewei], **59:** 583
modification of ryanodine toxicity by, in model of malignant hyperthermia (OA) [Fairhurst, Hamamoto & Macri], **53:** 199
myoglobinemia induced by, in children, inhibitory effect of intravenous *d*-tubocurarine and oral dantrolene on (CR) [Asari, Inoue, Maruta & Hirose], **61:** 332
in neuromuscular blockade in patient with nemaline myopathy (CR) [Heard & Kaplan], **59:** 598
neuromuscular blockade by, potentiation by verapamil (OA) [Durant, Nguyen & Katz], **60:** 298
neuromuscular blockade in subjects heterozygous for abnormal plasma cholinesterase (OA) [Viby-Mogensen], **55:** 231
neuromuscular blockade in subjects homozygous for atypical plasma cholinesterase (OA) [Viby-Mogensen], **55:** 429
in obstetrics, challenge to use of *d*-tubocurarine prior to (CO) [Crawford], **57:** 549
in obstetrics (CO) [Sellers & Goddard], **60:** 506
in outpatient surgery, enema-induced hypocalcemia and hyperphosphatemia leading to cardiac arrest (CR) [Reedy & Zwiren], **59:** 588
and pancuronium, blockade with, recovery of neuromuscular function in perfused rat diaphragm after (OA) [Bartkowski], **58:** 409
phase II block, potentiation of, with isoflurane (OA) [Donati & Bevan], **58:** 552
postoperative sore throat induced by (OA) [Capan, Bruce, Patel & Turndorf], **59:** 202
and precurarization in obstetrics (CO) [Conklin], **60:** 384
pretreatment, with nondepolarizing muscle relaxant (CO) [Brodsky], **56:** 488
pretreatment and "crash" induction (CO) [Jenkins], **61:** 346
prolonged blockade following, in patient homozygous for silent gene (CR) [Oshita, Sari, Fujii & Yonei], **59:** 71
prolonged effect of, after neostigmine and pyridostigmine in renal failure (CR) [Bishop & Hornbein], **58:** 384
reaginic antibodies to (OA) [Fisher], **52:** 318
regurgitation following, nondepolarizing muscle relaxant pretreatment does not decrease (CO) [Smith], **56:** 408
requirement, weight, pseudocholinesterase activity and (CR) [Bentley, Borel, Vaughan & Gandolfi], **57:** 48
responses to, malignant hyperthermia and (review article) [Gronert], **53:** 395
in Rubinstein-Taybi syndrome (CO) [Stirt], **57:** 429
"self-taming," does dose of decrease postoperative myalgia in outpatients? (CO) [Siler, Cook & Ricca], **52:** 98
"self-taming," does dose of decrease postoperative myalgia in outpatients? (CO) [Verma], **52:** 98
"self-taming" doses of, failure of, to inhibit increases in postoperative serum creatine kinase activity in children (CR) [Plötz & Braun], **56:** 207
"self-taming" with, and muscle pain (CO) [Verma], **58:** 487
self-taming, effect of, on intraocular pressure, controlled study of (CR) [Meyers, Singer & Otto], **53:** 72
small intermittent doses of, response of patient with atypical pseudocholinesterase to (CR) [Azar & Betcher], **54:** 519
study of, in prevention of increase in intracranial pressure during endotracheal suctioning (CR) [White, Schlobohm, Pitts & Lindauer], **57:** 242
and succinylmonocholine, chronotropic effects of, on sinoatrial node (OA) [Yasuda, Hirano, Amaha, Fudeta & Obara], **57:** 289
tachyphylaxis with isoflurane (CO) [Ben-David & Gross], **59:** 365
tachyphylaxis with isoflurane (CO) [Donati & Bevan], **59:** 366

succinylmonocholine
and succinylcholine, chronotropic effects of, on sinoatrial node (OA) [Yasuda, Hirano, Amaha, Fudeta & Obara], **57:** 289

***d*-tubocurarine**
in abolition of succinylcholine-induced fasciculations (CO) [Collier], **56:** 409
in abolition of succinylcholine-induced fasciculations (CO) [Muravchick], **56:** 410
in comparative evaluation of pretreatment with nondepolarizing neuromuscular blockers prior to administration of succinylcholine (CR) [Blitt, Carlson, Rolling, Hameroff & Otto], **55:** 687
defense of use of, prior to succinylcholine in obstetrics (CO) [Marx & Bassell], **59:** 157
as dopaminergic antagonist in rabbit ear artery (OA) [Nelson & Steinsland], **59:** 98
edrophonium onset and duration of antagonism and atropine requirement under (OA) [Cronnelly, Morris & Miller], **57:** 261
effect of, and train-of-four response in fast and slow muscles (OA) [Day, Blake, Standaert & Dretchen], **58:** 414
effects of furosemide on blockade produced by (OA) [Scappaticci, Ham, Sohn, Miller & Dretchen], **57:** 381
human dose-response curves for (LR) [Donlon, Savarese, Ali & Teplik], **53:** 161
hyposensitivity, burn-related, elevated plasma binding cannot account for (OA) [Leibel, Martyn, Szyfelbein & Miller], **54:** 378
increased requirement for, following major thermal injury (CR) [Martyn, Szyfelbein, Ali, Matteo & Savarese], **52:** 352
inhibitory effect of, on halothane-succinylcholine-induced myoglobinemia in children (CR) [Asari, Inoue, Maruta & Hirose], **61:** 332
and metocurine, pharmacodynamics and pharmacokinetics of, in humans, compared (OA) [Matteo, Brotherton, Nishitateno, Khambatta & Dias], **57:** 183

for neuromuscular blockade, variability in assessment of (CR) [Stiffel, Hameroff, Blitt & Cork], **52:** 436
neuromuscular block by, and subsequent antagonism by neostigmine in the rabbit, effect of dantrolene on (OA) [Flewellen, Nelson & Bee], **52:** 126
neuromuscular blockade with, decreasing enflurane concentrations and (OA) [Gencarelli, Miller, Eger & Newfield], **56:** 192
neuromuscular blockade with, in man, pharmacokinetics of edrophonium and neostigmine when antagonizing (OA), [Morris, Cronnelly, Miller, Stanski & Fahey], **54:** 399
neuromuscular blockade with, relationship between receptor occlusion and frequency sweep electromyogram during (OA) [Yodlowski & Mortimer], **54:** 23
does not retain potency at hypothermia (OA) [Horrow & Bartkowski], **58:** 357
in obstetrics (CO) [Sellers & Goddard], **60:** 506
and other neuromuscular blocking agents, interaction of, on indirectly elicited muscle twitch (OA) [Waud & Waud], **61:** 420
pancuronium, and epinephrine-induced arrhythmias during halothane anesthesia (OA) [Schick, Chapin, Munson & Kushins], **52:** 207
in partial curarization in awake subjects, relationship between respiratory muscle strength and vital capacity during (OA) [Gal & Goldberg], **54:** 141
partition coefficient vs. dissociation rate constant as determinant of duration of neuromuscular blockade with (CO) [Feldman], **54:** 350
partition coefficient vs. dissociation rate constant as determinant of duration of neuromuscular blockade with (CO) [Stanski], **54:** 351
pharmacokinetics of (OA) [Matteo, Nishitateno, Pua & Spector], **52:** 335
pharmacokinetics, three-compartment model for analysis of (CO) [Shanks, Ramzan & Triggs], **52:** 375
pharmacokinetics and dynamics of, during hypothermia in humans (OA) [Ham, Stanski, Newfield & Miller], **55:** 631
pharmacokinetics and pharmacodynamics of, in infants, children, and adults (OA) [Fisher, O'Keeffe, Stanski, Cronnelly, Miller & Gregory], **57:** 203
precurarization inhibits maximal ventilatory effort (CR) [Bruce, Downs, Kulkarni & Capan], **61:** 618
prior to succinylcholine in obstetrics, challenge to use of (CO) [Crawford], **57:** 549
questions regarding time-dependent increase in sensitivity during enflurane anesthesia (CO) [Feingold], **54:** 260
questions regarding time-dependent increase in sensitivity during enflurane anesthesia (CO) [Stanski], **54:** 260
reaginic antibodies to (OA) [Fisher], **52:** 318
recovery from, twitch, tetanus and train-of-four as indices of (OA) [Ali, Savarese, Lebowitz & Ramsey], **54:** 294
regional hemodynamic effects of, comparative study of (OA) [Saxena, Dhasmana & Prakash], **59:** 102
role of histamine in hypotensive action of, in humans (OA) [Moes, Rosow, Savarese, Philbin & Kniffen], **55:** 19
sensitivity to, chronic potassium depletion and (OA) [Waud, Mookerjee & Waud], **57:** 111
stimulus frequency and dose-response curve to, in man (OA) [Ali & Savarese], **52:** 36
in study of succinylcholine-induced fasciculations and intragastric pressure during induction of anesthesia (CR) [Muravchick, Burkett & Gold], **55:** 180
sympathetic ganglionic blockade in anesthetized cat produced by, 4-aminopyridine reversal of (OA) [Durant, Lee & Katz], **52:** 381
for systemic curare testing in diagnosis of myasthenia gravis (CR) [Balestrieri & Prough], **57:** 226
time-dependent increase in sensitivity to, during enflurane anesthesia (OA) [Stanski, Ham, Miller & Sheiner], **52:** 483

vecuronium
blockade in anesthetized humans, effects of hypercarbia and hypocarbia on (OA) [Gencarelli, Swen, Koot & Miller], **59:** 376
clinical pharmacology of (OA) [Fahey, Morris, Miller, Sohn, Cronnelly & Gencarelli], **55:** 6
clinical pharmacology of (RA) [Miller, Rupp, Fisher, Cronnelly, Fahey & Sohn], **61:** 444
effect of, and train-of-four response in fast and slow muscles (OA) [Day, Blake, Standaert & Dretchen], **58:** 414
in evaluation of atracurium besylate requirement for stable muscle relaxation during surgery (CR) [d'Hollander, Luyckx, Barvais & DeVille], **59:** 237
neuromuscular blockade induced by, during enflurane, isoflurane, and halothane anesthesia in humans (OA) [Rupp, Miller & Gencarelli], **60:** 102
neuromuscular effects of, in children (OA) [Fisher & Miller], **58:** 519
new neuromuscular blocking drug (EV) [Savarese], **55:** 1
ORG NC45 (vecuronium), and pancuronium, heart rate and blood pressure changes after, during halothane and enflurane anesthesia (CR) [Gregoretti, Sohn & Sia], **56:** 392
and pancuronium, cardiovascular effects of, in patients undergoing coronary artery bypass grafting (OA) [Morris, Cahalan, Miller, Wilkinson, Quasha & Robinson], **58:** 438
and pancuronium, neuromuscular blocking and vagolytic effects of, compared (OA) [Lee Son, Waud & Waud], **55:** 12
and pancuronium, pharmacokinetics and pharmacodynamics of, in anesthetized humans (OA) [Cronnelly, Fisher, Miller, Gencarelli, Nguyen-Gruenke & Castagnoli], **58:** 405
and pancuronium administered during cesarean section (OA) [Dailey, Fisher, Shnider, Baysinger, Shinohara, Miller, Abboud & Kim], **60:** 569
pharmacokinetics of (CO) [Cronnelly, Fisher & Miller], **60:** 509
pharmacokinetics of (CO) [Norman], **60:** 509
and pheochromocytoma (CR) [Gencarelli, Roizen, Miller, Joyce, Hunt & Tyrrell], **55:** 690
potency determination for (LR) [Fisher, Fahey, Cronnelly & Miller], **57:** 309
regional hemodynamic effects of, comparative study of (OA) [Saxena, Dhasmana & Prakash], **59:** 102

Neuromuscular transmission
effect of spinal cord transection on, in rat (OA) [Carter, Sokoll & Gergis], **55:** 542
effects of furosemide on (OA) [Scappaticci, Ham, Sohn, Miller & Dretchen], **57:** 381
as index of recovery from nondepolarizing neuromuscular blockade (OA) [Ali, Savarese, Lebowitz & Ramsey], **54:** 294
in infants, measurement of, following nitrous oxide, (OA) [Crumrine & Yodlowski], **54:** 29
myasthenia gravis, systemic curare test in (CR) [Balestrieri & Prough], **57:** 226

phase II block
in study of succinylcholine neuromuscular blockade in subjects homozygous for atypical plasma cholinesterase (OA) [Viby-Mogensen], **55:** 429
in succinylcholine neuromuscular blockade in subjects heterozygous for abnormal plasma cholinesterase (OA) [Viby-Mogensen], **55:** 231

receptor occlusion, and frequency sweep electromyogram, relationship between, during competitive neuromuscular blockade (OA) [Yodlowski & Mortimer], **54:** 23

stimulator

nerve

in assessment of succinylcholine duration of action with plasma cholinesterase activity in subjects with genotypically normal enzyme (CR) [Viby-Mogensen], **53:** 517

posttetanic count (PTC) in evaluation of, in intense nondepolarizing neuromuscular blockade (CR) [Viby-Mogensen, Howardy-Hansen, Chraemner-Jørgensen, Ørding, Engbaek & Nielsen], **55:** 458

in succinylcholine neuromuscular blockade in subjects heterozygous for abnormal plasma cholinesterase (OA) [Viby-Mogensen], **55:** 231

train-of-four, in study of succinylcholine neuromuscular blockade in subjects homozygous for atypical plasma cholinesterase (OA) [Viby-Mogensen], **55:** 429

systemic curare test of, in myasthenia gravis (CR) [Balestrieri & Prough], **57:** 226

tachyphylaxis

in study of succinylcholine neuromuscular blockade in subjects homozygous for atypical plasma cholinesterase (OA) [Viby-Mogensen], **55:** 429

train-of-four

in measurement of neostigmine, pyridostigmine and edrophonium as antagonists of pancuronium (OA) [Ferguson, Egerszegi & Bevan], **53:** 390

Neuromuscular transmission, nerve stimulator

peripheral, evaluation of, and relationship to possible errors in assessing neuromuscular blockade (LR) [Mylrea, Hameroff, Calkins, Blitt & Humphrey], **60:** 464

Neurons, *See under* Brain; Spinal cord

Neurons, WDR, *See under* Spinal cord

Neuropathy, *See under* Complications

Neuroradiology, *See under* Monitoring

Neurosurgery, *See under* Surgery

Neurosurgical anesthesia, *See under* Anesthesia

Neurotoxicity, *See under* Toxicity

Neurotransmission, *See under* Sympathetic nervous system

Neurotransmitters, *See also under Brain*

dopamine

alteration in cerebral monoamines by, and lidocaine toxicity in rats (OA) [Niederlehner, DiFazio, Foster & Westfall], **56:** 184

and halothane-induced changes in release and disposition of norepinephrine at adrenergic nerve endings in dog saphenous vein (OA) [Lunn & Rorie], **61:** 377

norepinephrine

alteration in cerebral monoamines by, and lidocaine toxicity in rats (OA) [Niederlehner, DiFazio, Foster & Westfall], **56:** 184

serotonin

alteration in cerebral monoamines by, and lidocaine toxicity in rats (OA) [Niederlehner, DiFazio, Foster & Westfall], **56:** 184

Neutrophils, *See under* Blood

Neville, W. E. (ed.)

Intensive Care of the Surgical Cardiopulmonary Patient (BR), **60:** 624

Newborn, *See under* Anesthesia, pediatric

Nicotinic antagonists, *See under* Antagonists

Nicotinic receptors, *See under* Receptors

Nifedipine, *See under* Ions, calcium; Ions, calcium channel blockers; Pharmacology

Nitrogen, *See under* Anesthetics, gases; Gases, nonanesthetics; Metabolism

Nitroglycerin, *See under* Anesthetic techniques, hypotension, induced; Heart; Pharmacology; Sympathetic nervous system, sympatholytic agents

Nitroprusside, *See under* Anesthetics, gases; Analgesics; Anesthetic techniques, hypotension, induced; Pharmacology; Toxicity

Nitrous oxide, *See under* Anesthetics, gases

Nonanesthetic gases, *See under* Gases

Noncardiac surgery, *See under* Surgery

Nonrebreathing circuits, *See under* Equipment

Noradrenaline, *See under* Sympathetic nervous system, catecholamines, norepinephrine

Norcuron, *See under* Neuromuscular relaxants, vecuronium

Norepinephrine, *See under* Neurotransmitters; Sympathetic nervous system, catecholamines

Nuclear magnetic resonance spectrometry, *See under* Measurement techniques

Nucleotides, *See under* Metabolism

Nunn, J. F.

Applied Respiratory Physiology (BR), **52:** 531

Nurse anesthetists, *See under* Manpower

Nutrition

liquid

and intraoperative explosion during colon surgery (CO) [Freund & Radke], **58:** 196

and intraoperative explosion during colon surgery (CO) [Rumley], **58:** 195

parenteral, *See under* Metabolism

total parenteral

hypophosphatemic respiratory failure complicating (CO) [Yousef], **57:** 246

O

Obesity, *See under* Complications

Obstetric anesthesia, *See under* Anesthesia, obstetric

Obstetric surgery, *See under* Surgery

Obstetrics, *See under* Anesthetics, obstetric

Obstruction, *See under* Airway; Arteries; Complications; Gastrointestinal tract; Lung(s)

Obstruction of airway, *See under* Airway

Obstructive pulmonary disease, *See under* Lung(s)

Obstructive sleep apnea, *See under* Airway

Occlusion pressure, *See under* Measurement techniques

Occupational hazards, *See under* Anesthesiologists

Oliguria, *See under* Kidney

One-lung ventilation, *See under* Ventilation

Operating rooms

air pollution

nitrous oxide, time-weighted averaging for (LR) [McGill, Rivera & Howard], **53:** 424

contamination

exposure to anesthetic gases and health problems in dental workers in (EV) [Michenfelder], **53:** 1

from nonanesthetic nitrous oxide (CR) [Wray], **52:** 88

with trace concentrations of halothane, results in enzyme induction in anesthetists (OA) [Duvaldestin, Mazze, Nivoche & Desmonts], **54:** 57

exhaust systems

and anesthetic pollution (SA) [Lecky], **52:** 157

and ASA brochure on waste anesthetic gases, failure to consider prevention in (CO) [Mazze], **55:** 333

and ASA brochure on waste anesthetic gases, failure to consider prevention in (CO) [Virtue], **55:** 332

in time-weighted averaging for nitrous oxide (LR) [McGill, Rivera & Howard], **53:** 424

grounding
and intraoperative explosion: methane gas and diet (CR) [Freund & Radke], **55:** 696
hypoxia (CO) [Birch], **59:** 365

labor suite
emergency equipment in (CO) [Boucek, Tyler, de la Vega & McKenzie], **61:** 478
noise (CO) [Thomas], **54:** 523

scavenging
exposure of anesthesiologists in, sperm studies in (OA) [Wyrobeck, Brodsky, Gordon, Moore, Watchmaker & Cohen], **55:** 527

sterilization
sterile anesthesia breathing circuits do not prevent postoperative pulmonary infection (OA) [Feeley, Hamilton, Xavier, Moyers & Eger], **54:** 369

Ophthalmic surgery, *See under* Surgery
Ophthalmologic anesthesia, *See under* Anesthesia
Ophthalmology, *See under* Anesthesia
Opiate receptors, *See under* Analgesics; Receptors
Opioids, *See under* Analgesics, narcotic; Anesthetics, narcotic
ORG NC45, *See under* Neuromuscular relaxants, vecuronium
Organizations
American Board of Anesthesiologists, statement on "Quality Anesthesia Care," comment on (SA) [Dykes], **53:** 237
American Board of Anesthesiology, founding of (SA) [Little], **55:** 317
American Board of Anesthesiology, programs of, and advances made by (SA) [Siker], **57:** 219
American Society of Anesthesiologists, programs of, and advances made by (SA) [Siker], **57:** 219
American Society of Anesthesiologists, waste anesthetic gases and (SA) [Mazze], **52:** 248
Anesthesiology Triad in Obstetrics (SM) [James], **56:** 335
Anesthetic Toxicity Symposium at Gull Harbor (SM) [Brown], **58:** 208
Committee on Graduate Medical Education, anesthesiology liaison service and (CO) [Schotz], **52:** 190
Conference on Care of Patients With Severe Chronic Pain and Terminal Illness (SM), **60:** 395
Conference on Clinical Pharmacology and Therapeutics, First World (SM) [Baden], **55:** 193
First European Congress of Obstetric Anaesthesia and Analgesia (SM), **52:** 458
Food and Drug Administration, waste anesthetic gases and (SA) [Mazze], **52:** 248
Jehovah's Witnesses, intraoperative autotransfusion in bilateral adrenalectomy for pheochromocytoma in (CR) [Smith, Mihm & Mefford], **58:** 182
Joint Commission on Accreditation of Hospitals, waste anesthetic gases and (SA) [Mazze], **52:** 248
National Institute of Occupational Safety and Health, waste anesthetic gases and (SA) [Mazze], **52:** 248
Occupational Safety and Health Administration, waste anesthetic gases and (SA) [Mazze], **52:** 248
Second International Congress of Toxicology (SM) [Baden], **54:** 355
Society for Obstetric Anesthesia and Perinatology, twelfth annual meeting (SM) [Plumer & Datta], **54:** 438
Society of Cardiovascular Anesthesiologists, second annual meeting (SM) [Barash], **54:** 440
Society of Neurosurgical Anesthesia and Neurologic Supportive Care, eighth annual meeting (SM) [Bedford & Matjasko], **55:** 89
Society of Neurosurgical Anesthesia and Neurologic Supportive Care (SA) [Mazze], **52:** 248
Society of Neurosurgical Anesthesia and Neurologic Supportive Care (SM), **59:** 270
Society of Neurosurgical Anesthesia and Neurologic Supportive Care (SM) [Marshall & Bedford], **57:** 149

Orkin, F. K., and Cooperman, L. H.
Complications in Anesthesiology (BR), **61:** 232
Ornithine decarboxylase, *See under* Enzymes
Orthopedic anesthesia, *See under* Anesthesia, orthopedic
Orthopedic surgery, *See under* Anesthesia; Surgery
Osteogenesis imperfecta
anesthetic management in cesarean section (CR) [Cunningham, Donnelly & Comerford], **61:** 91
Otolaryngologic anesthesia, *See under* Anesthesia
Otolaryngology, *See under* Surgery
Ouabain, *See under* Pharmacology
Outpatient anesthesia, *See under* Anesthesia
Outpatient surgery, *See under* Surgery
Overdose, *See under* Toxicity
Oximeters, *See under* Equipment
Oxygen
alveolar
and hypoxia and lobar hypoxic pulmonary vasoconstriction (OA) [Benumof], **58:** 399

blood levels
arterial
effect of cardiac output on (MI) [Cheney & Colley], **52:** 496
during atelectasis in dog (OA) [Glasser, Domino, Lindgren, Parcella, Marshall & Marshall], **58:** 225
in changes in venous admixture with alterations of inspired oxygen concentration (OA) [Quan, Kronberg, Schlobohm, Feeley, Don & Lister], **52:** 477
effects of isoflurane, halothane and enflurane on, compared (OA) [Merin], **55:** 398
and gas exchange, effect of unilateral PEEP on, in canine lobar pneumonia (OA) [Light, Mink & Wood], **55:** 251
in high-frequency jet ventilation in postoperative respiratory failure (OA) [Rouby, Fusciardi, Bourgain & Viars], **59:** 281
improvement of, during one-lung ventilation in dogs (OA) [Alfery, Benumof & Trousdale], **55:** 381
influence of mixed venous oxygen tension ($P\bar{v}O_2$) on, in atelectatic lung (OA) [Domino, Wetstein, Glasser, Lindgren, Marshall, Harken & Marshall], **59:** 428
during intermittent hypoxia, another point of view on (EV) [Marshall], **55:** 200
in potentiation of lobar hypoxic pulmonary vasoconstriction by intermittent hypoxia in dogs (OA) [Pirlo, Benumof & Trousdale], **55:** 226
pulse oximetry in evaluation of (CR) [Yelderman & New], **59:** 349
selection of, table for—use of compressed air made easy (CR) [Teeple & Pavlov], **55:** 692
in sustained hypoxic pulmonary vasoconstriction in dog (OA) [Domino, Chen, Alexander, Williams, Marshall & Marshall], **60:** 562
during unilateral lung lavage: blood flow manipulation by ipsilateral pulmonary artery balloon inflation in dogs (OA) [Alfery, Zamost & Benumof], **55:** 376

concentration
analyzer
Beckman D2®, moisture-proffing of (CO) [Bandy & Finch], **52:** 190

monitor
audio vs. visual oxygen alarm for (CO) [Steward, Pelton & Brummitt], **52:** 192

consumption, *See also under* Measurement techniques; Metabolism
effect of paralysis on, in normoxic children after cardiac surgery (OA) [Palmisano, Fisher, Willis, Gregory & Ebert], **61:** 518
effects of prolonged hypothermia and rewarming on, **52:** 224
heart
effects of isoflurane, halothane and enflurane on, compared (OA) [Merin], **55:** 398
in response to ischemia in swine during halothane and fentanyl anesthesia (OA) [Merin, Verdouw & de Jong], **56:** 84
during labor with epidural analgesia (OA) [Hägerdal, Morgan, Sumner & Gutsche], **59:** 425
liver
and hepatic injury following halothane, enflurane, and isoflurane anesthesia in rats (OA) [Harper, Collins, Johnson, Eger & Biava], **56:** 14
lung model for testing (CO) [Stenqvist & Sonander], **58:** 594
measurement of, in systematic method for validation of gas exchange measurements (LR) [Damask, Weissman, Askanazi, Hyman, Rosenbaum & Kinney], **57:** 213
during total parenteral nutrition using glucose of fat (OA) [Askanazi, Nordenstrom, Rosenbaum, Elwyn, Hyman, Carpentier & Kinney], **54:** 373
content
arterial
high versus low, effect of, on cerebral energy metabolite levels during hypoxia with normothermia and hypothermia in rat (OA) [Keykhak, Hägerdal, Welsh, Barrer, Sisco & Harp], **52:** 492
delivery systems
back pressure check valves of, as hazard (CO) [Comm & Rendell-Baker], **56:** 327
continuous, during nasotracheal intubation (CO) [Goldman & McDonald], **61:** 352
exposed O_2 flush hazard in (CO) [Anderson & Rendell-Baker], **56:** 328
faulty, due to design and lack of maintenance (CO) [McMahon, Holm & Batra], **58:** 586
faulty, due to design and lack of maintenance, manufacturer's comment on (CO) [Rosano], **58:** 587
liter flows of, table—use of compressed air made easy (CR) [Teeple & Pavlov], **55:** 692
low failure rate for, in United Kingdom (CO) [Howell], **54:** 526
method for mixing air and oxygen in (CO) [Priano, Solanki & Gloyna], **57:** 145
and method of mixing air and oxygen (CO) [DesMarteau & Byles], **58:** 490
new, failure of, to prevent delivery of hypoxic gas mixture (CO) [Davis], **54:** 437
new, failure of, to prevent delivery of hypoxic gas mixture (CO) [Malone], **54:** 436
oxygen analyzers in, viewed by public, attorneys, and anesthesiologist (CO) [Feingold], **57:** 553
potentially fatal fault in (CO) [Julien], **58:** 584
potentially fatal fault in, manufacturer's comment on (CO) [Luich], **58:** 585
and prevention of hypoxic accidents (CO) [Eisenman], **61:** 624
and simple fool-proof method to prevent hypoxic accidents (CO) [Zorab], **60:** 515
use of, in nitrogen leak (CO) [Birch], **59:** 365
diffusion
lung membrane capacity for, changes in, produced by halothane (OA) [Stene, Laravuso & Burns], **56:** 97
failure to use analyzers of, to prevent hypoxic accidents (CO) [Rendell-Baker & Meyer], **58:** 287
gradients
as hazard during laser endoscopic surgery (CO) [Chilcoat, Byles & Kellman], **59:** 258
in study of contribution of closure of pulmonary units to impaired oxygenation during anesthesia (OA) [Bergman & Tien], **59:** 395
hyperbaric
no effect of, on methionine synthetase activity in rats (LR) [Sharer, Monk & Nunn], **59:** 440
hypoxia
and halothane and ischemic injury (CO) [Kissin & Reves], **60:** 74
halothane effects on carotid body chemoreceptors to (EV) [Knill & Gelb], **57:** 151
and hypercapnia in cat, halothane depresses response of carotid body chemoreceptors to (OA) [Davies, Edwards & Lahiri], **57:** 153
and retrolental fibroplasia (EV) [Flynn], **60:** 397
measurement
of consumption, in systematic method for validation of gas exchange measurements (LR) [Damask, Weissman, Askanazi, Hyman, Rosenbaum & Kinney], **57:** 213
oxygen analyzers in, viewed by public, attorneys, and anesthesiologist (CO) [Feingold], **57:** 553
plea for routine use of oxygen analyzers in (CO) [Marks], **59:** 159
in temperature correction of arterial blood-gas parameters, methodology compared (MI) [Andritsch, Muravchik & Gold], **55:** 311
pressure changes, in accidental disconnection, pulmonary barotrauma in (CO) [Rendell-Baker & Meyer], **58:** 286
supply lines
error in gas concentration in, unanticipated consequence of defective check valve (CR) [Bageant, Hoyt & Epstein], **54:** 166
tension
arterial
decreased, following nitroglycerin administration, deep breathing and (CR) [Kopman], **55:** 74
and pulmonary function tests, effect of massive weight loss on (OA) [Vaughan, Cork & Hollander], **54:** 325
transcutaneous oxygen measurements in critical care medicine as index of (CO) [Yelderman], **59:** 266
effects of isoflurane, halothane and enflurane on, compared (OA) [Merin], **55:** 398
goats, and oxygenation during mechanical ventilation (CO) [Gardaz, Perez-Chada & Sykes], **56:** 491
massive weight loss will improve, in selected patients (CO) [Sugerman & Fairman], **55:** 604
muscle
and arteriolar diameters in hemorrhaged rats, anesthetic influence on (OA) [Longenecker, Ross & Silver], **57:** 177
postoperative
following general anesthesia for morbidly obese patients (OA) [Cork, Vaughan & Bentley], **54:** 310
toxicity
does not cause respiratory failure in bleomycin-treated surgical patients (CR) [LaMantia, Glick & Marshall], **60:** 65
and lung microvascular permeability (OA) [Erdmann, Huttemeier, Landolt & Zapol], **58:** 153
and restriction of oxygen in bleomycin-treated surgical patients (CO) [Goldiner & Rooney], **61:** 225
and restriction of oxygen in bleomycin-treated surgical patients (CO) [LaMantia, Glick & Marshall], **61:** 226
and retrolental fibroplasia, is bright light related to? (CO) [Flynn], **61:** 785
and retrolental fibroplasia, is bright light related to? (CO) [Warshauer], **61:** 785

Oxygen analyzers, *See under* Equipment
Oxygen insufflation device, *See under* Equipment
Oxygen monitors, *See under* Equipment
Oxygen response, *See under* Ventilation
Oxygen tension, *See under* Ventilation
Oxygenation, *See under* Oxygen
Oxyhemoglobin dissociation, *See under* Blood; Oxygen
Oxymorphone, *See under* Analgesics, narcotic
Oxytocics, *See under* Anesthesia, obstetric; Uterus

P

Pacemakers, *See under* Equipment; Heart
Pacing catheter, pulmonary artery, *See under* Equipment
Packaging, *See under* Equipment
Pain
alpha-1-acid glycoprotein and beta-endorphin alterations in (CO) [Fukui, Hameroff & Gandolfi], **60:** 494
antinociceptive
and motor reaction in rats, halothane antagonists effect of morphine (OA) [Kissin & Jebeles], **61:** 671
causalgia
treatment of (CO) [Teeple & Ghia], **58:** 294
treatment of treatment of (CO) [Szeinfeld & Pallares], **58:** 295
diagnosis
differential, use of saline for (CO) [Winnie], **54:** 432
effects of lumbar epidural morphine on (OA) [Kafer, Brown, Butz, Teeple & Ghia], **58:** 418
epidural morphine
mechanism of epidural lidocaine reversal of tachyphylaxis associated with (CO) [Coombs], **59:** 486
experimental
effect of nitrous oxide concentration on event-related potentials during (OA) [Benedetti, Chapman, Colpitts & Chen], **56:** 360
and effects of nitrous oxide, and transcutaneous electrical stimulation on brain potentials (OA) [Chapman, Schimek, Gehrig & Colpitts], **58:** 250
ischemic, in studies of antagonism of nitrous oxide analgesia by naloxone in man (OA) [Yang, Clark & Ngai], **52:** 414
lidocaine as analgesic for (OA) [Rowlingson, DiFazio, Foster & Carron], **52:** 20
sensitivity to, after thoracotomy: technique of multiple intercostal nerve blocks (CO) [Restelli, Movilia, Bossi & Caironi], **61:** 353
studying cerebral evoked potentials in, methodology for, challenged (CO) [Grundy, Chapman & Benedetti], **52:** 286
and ventilatory and analgesics effects of dezocine in humans (OA) [Gal & DiFazio], **61:** 716
facial
induced by music (CO) [Yanagida], **58:** 388
glossopharyngeal neuralgic
with syncope, anesthetic considerations in (CR) [Roa & Krupin], **54:** 426
heat stimulation
in cat, effects of halothane on spinal neuronal responses to (OA) [Namiki, Collins, Kitahata, Kikuchi, Hamma & Thalhammer], **53:** 460
intractable
in humans, peridural meperidine in (OA) [Glynn, Mather, Cousins, Graham & Wilson], **55:** 520
management
epidural morphine in terminally ill patient (CO) [McCoy & Miller], **57:** 427
measurement
blood meperidine concentration and (OA) [Austin, Stapleton & Mather], **53:** 460
and effects of nitrous oxide, and transcutaneous electrical stimulation on brain potentials (OA) [Chapman, Schimek, Gehrig, Gerlach & Colpitts], **58:** 250
in improvement of analgesic therapy (EV) [Hug], **53:** 441
in study of TENS and halothane requirements during hand surgery (CR) [Bourke, Smith, Erickson, Gwartz & Lessard], **61:** 769
during tooth stimulation, effect of nitrous oxide concentration on event-related potentials during (OA) [Benedetti, Chapman, Colpitts & Chen], **56:** 360
and ventilatory and analgesics effects of dezocine in humans (OA) [Gal & DiFazio], **61:** 716
mechanisms
intrinsic to central nervous system, multiple mechanisms of inhibition of (EV) [Liebeskind], **54:** 445
myalgia
"self-taming" with succinylcholine and (CO) [Verma], **58:** 487
noxious heat
in dorsal horn of spinal cord, spinally administered epinephrine suppresses (OA) [Collins, Kitahata, Matsumoto, Homma & Suzukawa], **60:** 269
spinal fentanyl in suppression of (OA) [Sukuzawa, Matsumoto, Collins, Kitahata & Yuge], **58:** 510
WDR dorsal horn neuronal activity and, spinally administered morphine in suppression of (OA) [Homma, Collins, Kitahata, Matsumoto & Kawahara], **58:** 232
pathologic
of arm, associated with Pancoast's syndrome, brachial plexus block with phenol for (CR) [Mullin], **53:** 431
celiac plexus block in, improved technique for, may be more theoretical than real (CO) [Moore, Bush & Burnett], **57:** 347
celiac plexus block in, improved technique for, may be more theoretical than real (CO) [Singler], **57:** 348
improved technique for alcohol neurolysis of celiac plexus in (CR) [Singler], **56:** 137
phenol
and brachial plexus block in, for painful arm associated with Pancoast's syndrome (CR) [Mullin], **53:** 431
placebo
in differential diagnosis of pain mechanisms (CO) [Winnie], **54:** 432
postoperative
blood meperideine concentration and (OA) [Austin, Stapleton and Mather], **53:** 460
cesarean section, epidural morphine in (OA) [Cohen & Woods], **58:** 500
clinical advantages of fentanyl given epidurally (CR) [Lomessy, Magnin, Viale, Motin & Cohen], **61:** 466
control with methadone (OA) [Gourlay, Willis & Wilson], **61:** 19
endorphin levels in cerebrospinal fluid of patients with (OA) [Puig, Laorden, Miralles & Olaso], **57:** 1
following epidural or intrathecal morphine administration (CO) [Jørgensen, Andersen & Engquist], **55:** 714
epidural administration of morphine in relief of, serum levels following (OA) [Weddel & Ritter], **54:** 210
epidural injection of morphine for control of (CR) [Chayen, Rudick & Borvine], **53:** 338
epidural morphine analgesia in, in children (CR) [Shapiro, Jedeikin, Shaley & Hoffman], **61:** 210
epidural morphine analgesia in (OA) [Nordberg, Hedner, Mellstrand & Dahlstrom], **58:** 545

epidural morphine in (OA) [Bromage, Camporesi, Durant & Nielsen], **56:** 431
epidural morphine in (OA) [Martin, Salbaing, Blaise, Tétrault & Tétreault], **56:** 423
in humans, peridural meperidine in (OA) [Glynn, Mather, Cousins, Graham & Wilson], **55:** 520
improving analgesic therapy for (EV) [Hug], **53:** 441
intrathecal morphine after upper abdominal surgery (OA) [Clergue, Montembault, Ghesquierre, Harari & Viars], **61:** 677
intrathecal morphine in, CNS depression from (CO) [Davies, Tolhurst-Cleaver & James], **52:** 280
methadone pharmacodynamics and pharmacokinetics in (OA) [Gourlay, Wilson & Glenn], **57:** 458
morphine in, pharmacokinetics aspects of (OA) [Nordberg, Hedner, Mellstrand & Dahiström], **60:** 448
nitrous oxide analgesia in (CO) [Gillman, Footerman & Lichtigfeld], **56:** 234
and pulmonary function following epidural and systemic morphine (OA) [Shulman, Sandler, Bradley, Young & Brebner], **61:** 569

sciatica
in patient with lumbar disc disease, use of two epidural catheters to provide analgesia of unblocked segments in (CR) [Schachner & Abram], **56:** 150
sensory decision theory, consequences of not applying (CO) [Clark & Yang], **53:** 265

steroids
epidural
and adrenal response in dogs (OA) [Gorski, Rao, Glisson, Chinthagada & El-Etr], **57:** 364

stimulation
heart rate response to, as index of anesthetic potency for enflurane (CO) [Kissin & Morgan], **58:** 109

studies in primate
of analgesic effects associated with intrathecal actions of opiates, α-adrenergic agonists and baclofen (OA) [Yaksh & Reddy], **54:** 457

therapy
multiple mechanisms of, in pain intrinsic to central nervous system (EV) [Liebeskind], **54:** 445
transcutaneous cranial electrical stimulation in (CO) [Nicosia & Lombardi], **59:** 264

threshold
in cat, effects of halothane on spinal neuronal responses and (OA) [Namiki, Collins, Kitahata, Kikuchi, Homma & Thalhammer], **53:** 475

venipuncture
predicting of (CO) [Burstein & Vanga], **58:** 487

Pallot, D. J.
Control of Respiration (BR), **61:** 233

Pancoast's tumor
brachial plexus block with phenol for (CR) [Mullin], **53:** 431

Pancreas
autotransplantation
mixed-cell intraportal, intraoperative hemodynamic changes in patients undergoing (CR) [Torres, Traverso & Sohn], **53:** 427

Pancuronium, *See under* Anesthetics, intravenous; Neuromuscular relaxants; Pharmacokinetics

Pantopaque, *See under* Cerebrospinal fluid

Paracervical block, *See under* Anesthetic techniques

Paraldehyde, *See under* Hypnotics

Paralysis, *See under* Complications; Muscle, skeletal; Nerve, damage; Neuromuscular transmission

Paraplegia, *See under* Spinal cord

Parasympathetic nervous system
acetylcholine
bronchospasm following intraocular injection of, in patient taking metoprolol (CR) [Rasch, Holt, Wilson & Smith], **59:** 593
airway reactivity and (MI) [Hirshman], **58:** 170

atropine
in comparison of neuromuscular blocking and vagolytic effects of ORG-NC45 and pancuronium (OA) [Lee Son, Waud & Waud], **55:** 12

reflexes
effects of isoflurane on (OA) [Seagard, Elegbe, Hopp, Bosnjak, von Colditz, Kalbfleisch & Kampine], **59:** 511

vagus
and mechanism of tracheal constriction by succinylcholine (OA) [Koga, Downes, Leon & Hirshman], **55:** 138

vagus nerve
effects of ORG NC45 and pancuronium on, compared (OA) [Lee Son, Waud & Waud], **55:** 12

Parasympathetic nervous system reflexes
carotid sinus, halothane and (OA) [Seagard, Hopp, Donnegan, Kalbfleisch & Kampine], **57:** 191

Parenteral nutrition, *See under* Metabolism; Nutrition

Partial thromboplastin time, *See under* Blood

Partition coefficient, *See under* Solubility

Patent foramen ovale, *See under* Heart

Patient transfer equipment, *See under* Equipment

Patients
anesthesiologists
and equipment, bacterial interactions between (MI) [du Moulin & Hedley-Whyte], **57:** 37

Patil, V., Stehling, L., and Zauder, H.
Fiberoptic Endoscopy in Anesthesia (BR), **60:** 623

Pediatric anesthesia, *See under* Anesthesia

Pediatric patients, *See under* Anesthesia

Pediatric surgery, *See under* Surgery

PEEP, *See under* Ventilation, positive-end expiratory pressure

Penile turgescence, *See under* Complications

Pentazocine, *See under* Analgesics, narcotic

Pentobarbital, *See under* Anesthetics, intravenous; Hypnotics, barbiturates

Pentolinium, *See under* Sympathetic nervous system, ganglionic blocking agents

Pentylenetetrazole, *See under* Analeptics

Perforation, *See under* Complications

Perfusion, *See under* Lung(s), blood flow; Ventilation

Pericardial tamponade, *See under* Heart

Pericardium, *See under* Heart

Peridural anesthesia, *See under* Anesthetic techniques

Peridural catheter, *See under* Equipment

Perioperative monitoring, *See under* Monitoring

Peripheral nerve stimulator, *See under* Equipment

Peripheral vascular resistance, *See under* Arteries; Blood pressure

Peritonitis, *See under* Infection

Peroxidation, lipid, *See under* Metabolism

Petty, C.
Research Techniques in the Rat (BR), **58:** 111

Petty, T. L.
Intensive and Rehabilitative Respiratory Care (BR), **58:** 304

pH, *See under* Acid-base equilibrium; Brain; Carbon dioxide, hypercarbia, hypocarbia; Dissociation constant; Gases, nonanesthetic, hydrogen

Pharmacodynamics
age factors
lack of, in atracuronium besylate requirement for stable muscle

relaxation during surgery (CR) [d'Hollander, Luyckx, Barvais & DeVille], **59:** 237

atracurium
in patients with and without renal failure (OA) [Fahey, Rupp, Fisher, Miller, Sharma, Canfell, Castagnoli & Hennis], **61:** 699

***d*-tubocurarine**
and metocurine, in humans, compared (OA) [Matteo, Brotherton, Nishitateno, Khambatta & Dias], **57:** 183

fentanyl
continuous infusion, in comparative study of intraoperative and postoperative effects (CR) [White, Dworsky, Horai & Trevor], **59:** 574
in relation to dose and plasma concentration in unanesthetized dogs (OA) [Arndt, Mikat & Parasher], **61:** 355

ketamine
continuous infusion, in comparative study of intraoperative and postoperative effects (CR) [White, Dworsky, Horai & Trevor], **59:** 574

methadone
during peri-operative period (OA) [Gourlay, Wilson & Glynn], **57:** 458
in postoperative pain control, doses and blood concentration-response relationships (OA) [Gourlay, Willis & Wilson], **61:** 19

metocurine
and *d*-tubocurarine, in humans, compared (OA) [Matteo, Brotherton, Nishitateno, Khambatta & Dias], **57:** 183
pharmacokinetics vs., in relaxant resistance in disuse atrophy (CO) [Gronert], **57:** 143
pharmacokinetics vs., in relaxant resistance in disuse atrophy (CO) [Holley], **57:** 142

propranolol
and hemodynamics during coronary artery bypass surgery (OA) [Sill, Nugent, Moyer, Torres, Schaff & Tinker], **60:** 455

thiopental
continuous infusion, in comparative study of intraoperative and postoperative effects (CR) [White, Dworsky, Horai & Trevor], **59:** 574
and model for studying depth of anesthesia and acute tolerance to (OA) [Hudson, Stanski, Saidman & Meathe], **59:** 301

Pharmacokinetics

alfentanil
are they really predictable? (CO) [Fisher], **59:** 256
are they really predictable? (CO) [Hug & Stanski], **59:** 257
kinetically predictable narcotic analgesic (EV) [Stanski & Hug], **57:** 435
(OA) [Bovill, Sebel, Blackburn & Heykants], **57:** 439

atracurium besylate
in patients with and without renal failure (OA) [Fahey, Rupp, Fisher, Miller, Sharma, Canfell, Castagnoli & Hennis], **61:** 699

dantrolene
in controversies in malignant hyperthermia (EV) [Gronert], **59:** 273
dose response in awake man: implications for management of malignant hyperthermia (OA) [Flewellen, Nelson, Jones, Arens & Wagner], **59:** 275

diffusion
delay in local anesthetic block *in vitro* (OA) [Fink & Cairns], **61:** 555

distribution
of fentanyl, and termination of its effects in rats (OA) [Hug & Murphy], **55:** 369
fentanyl, and postoperative rigidity following anesthesia with (CR) [Christian, Waller & Moldenhauer], **58:** 275

halothane
interactions among ventilation, circulation and—use of hybrid computer multiple model (OA) [Fukui & Smith], **54:** 107, 119
in obese patients, and recovery from (CO) [Ladegaard-Pedersen], **55:** 716
of intravenous morphine, in patients anesthetized with enflurane-nitrous oxide (OA) [Murphy & Hug], **54:** 187
of methohexital and thiopental in surgical patients (OA) [Hudson, Stanski & Burch], **59:** 215
of morphine, injected intravenously into anesthetized dog (OA) [Hug, Murphy, Rigel & Olson], **54:** 38
neuromuscular relaxants, partition coefficient vs. dissociation constant as determinant of duration of blockade and (CO) [Stanski], **54:** 351
neuromuscular relaxants, partition coefficient vs. dissociation rate constant as determinant of duration of blockade and (CO) [Feldman], **54:** 350

pediatrics
of thiopental, during surgery (OA) [Sorbo, Hudson & Loomis], **61:** 666
and protein binding in thiopental anesthesia (OA) [Burch & Stanski], **58:** 146

***d*-tubocurarine**
in infants, children, and adults (OA) [Fisher, O'Keefe, Stanski, Cronnelly, Miller & Gregory], **57:** 203
and metocurine, in humans, compared (OA) [Matteo, Brotherton, Nishitateno, Khambatta & Dias], **57:** 183
(OA) [Matteo, Nishitateno, Pua & Spector], **52:** 335
three-compartment model for analysis of (CO) [Shanks, Ramzan & Triggs], **52:** 375
time-dependent increase in sensitivity to, during enflurane anesthesia, questions regarding (CO) [Feingold], **54:** 260
time-dependent increase in sensitivity to, during enflurane anesthesia, questions regarding (CO) [Stanski], **54:** 261

edrophonium
clinical pharmacology of, in infants and children (OA) [Fisher, Cronnelly, Sharma & Miller], **61:** 428
and neostigmine, when antagonizing *d*-tubocurarine neuromuscular blockade in man (OA) [Morris, Cronnelly, Miller, Stanski & Fahey], **54:** 399

elimination
of nitrous oxide accelerates elimination of halothane: reversed second gas effect (OA) [Masuda & Ikeda], **60:** 567

enflurane
and renal fluoride excretion and plasma fluoride levels are dependent on urinary *p*H (OA) [Jarnberg, Ekstrand & Irestedt], **54:** 48

excretion
of sevoflurane, in healthy human volunteers (OA) [Holaday & Smith], **54:** 100

fentanyl
continuous infusion, in comparative study of intraoperative and postoperative effects (CR) [White, Dworsky, Horai & Trevor], **59:** 574
dose-independent (OA) [Murphy, Hug & McClain], **59:** 537
for infusion in intensive care unit: tolerance to anesthetic effects? (CR) [Shafer, White, Schüttler & Rosenthal], **59:** 245

gerontologic
studies of, urged by National Institute on Aging (CO) [Steinberg], **57:** 554

halothane and enflurane, relationship of concentrations of, in man (OA) [Cahalan, Johnson & Eger], **54:** 3

and halothane hepatitis (CO) [Cousins, Gourlay, Hall & Knights], **56:** 484

high-dose thiopental
used in cerebral resuscitation (CR) [Stanski, Mihm, Rosenthal & Kalman], **53:** 169

infusion
of fentanyl, and its reduction of enflurane MAC (OA) [Murphy & Hug], **57:** 485

intranasal
in intranasal administration of nitroglycerin (CR) [Hill, Bowley, Nahrwold, Knight, Kirsh & Denlinger], **54:** 346

ketamine
continuous infusion, in comparative study of intraoperative and postoperative effects (CR) [White, Dworsky, Horai & Trevor], **59:** 574

kinetics
of *d*-tubocurarine during enflurane anesthesia (OA) [Stanski, Ham, Miller & Sheiner], **52:** 483
and dynamics of *d*-tubocurarine during hypothermia in humans (OA) [Ham, Stanski, Newfield & Miller], **55:** 631
of halothane metabolism in humans, noninvasive *in vivo* method of assessing (OA) [Cahalan, Johnson, Eger, Sheiner, Richardson, Varner & Severinghaus], **57:** 298
of intranasal administration of nitroglycerin (CR) [Hill, Bowley, Nahrwold, Knight, Kirsh & Denlinger], **54:** 346
and pharmacodynamics of vecuronium and pancuronium in anesthetized humans (OA) [Cronnelly, Fisher, Miller, Gencarelli, Nguyen-Gruenke & Castagnoli], **58:** 405

laudanosine
and pharmacokinetics and pharmacodynamics of atracurium in patients with and without renal failure (OA) [Fahey, Rupp, Fisher, Miller, Sharma, Canfell, Castagnoli & Hennis], **61:** 699
of lidocaine and bupivacaine, following subarachnoid administration (OA) [Burm, van Kleef, Gladines, Spierdijk & Breimer], **59:** 191

lung model
for testing respiratory quotient measurements (CO) [Stenqvist & Sonander], **58:** 594

meperidine
blood concentrations of, and analgesic response to (OA) [Austin, Stapleton & Mather], **53:** 460
in improvement of analgesic therapy (EV) [Hug], **53:** 441
peridural in humans (OA) [Glynn, Mather, Cousins, Graham & Wilson], **55:** 520

metabolism
of methohexital and thiopental in surgical patients (OA) [Hudson, Stanski & Burch], **59:** 215

pediatrics
of thiopental, during surgery (OA) [Sorbo, Hudson & Loomis], **61:** 666
and protein binding, in thiopental anesthesia (OA) [Burch & Stanski], **58:** 146

methadone
during peri-operative period (OA) [Gourlay, Wilson & Glynn], **57:** 458

metocurine
and *d*-tubocurarine in humans, compared (OA) [Matteo, Brotherton, Nishitateno, Khambatta & Dias], **57:** 183
and pharmacodynamics of, in humans with and without renal failure (OA) [Brotherton & Matteo], **55:** 273

midazolam
automated gas chromatography for studies of (LR) [Greenblatt, Locniskar, Ochs & Lauven], **55:** 176
in chronic renal failure patients (OA) [Vinik, Reves, Greenblatt, Abernethy & Smith], **59:** 390
effect of age, gender, and obesity on (OA) [Greenblatt, Abernethy, Locniskar, Harmatz, Limjuco & Shader], **61:** 27

mixtures
lidocaine and bupivacaine, for epidural blockade (OA) [Seow, Lips, Cousins & Mather], **56:** 177

model
applied to halothane, and noninvasive *in vivo* method of assessing kinetics of metabolism of, in humans (OA) [Cahalan, Johnson, Eger, Sheiner, Richardson, Varner & Severinghaus], **57:** 298
to characterize thiopental (EV) [Stanski], **54:** 446
fentanyl, and termination of its effects in rats (OA) [Hug & Murphy], **55:** 369
hybrid computer multiple, in studies of interactions among ventilation, circulation, and uptake and distribution of halothane (OA) [Fukui & Smith], **54:** 107, 119
of vecuronium and pancuronium in anesthetized humans (OA) [Cronnelly, Fisher, Miller, Gencarelli, Nguyen-Gruenke & Castagnoli], **58:** 405

morphine
and biphasic depression of ventilatory responses to CO_2 following (OA) [Kafer, Brown, Scott, Findlay, Butz, Teeple & Ghia], **58:** 545
blood *p*H and brain uptake of ^{14}C-morphine (OA) [Schulman, Kaufman, Eisenstein & Rapoport], **61:** 540
epidural (OA) [Nordberg, Hedner, Mellstrand & Dahlstrom], **58:** 545

intrathecal
studied during thoracotomy (OA) [Nordberg, Hedner, Mellstrand & Dahlström], **60:** 448

neostigmine
and edrophonium, when antagonizing *d*-tubocurarine neuromuscular blockade in man (OA) [Morris, Cronnelly, Miller, Stanski & Fahey], **54:** 399
in infants and children (OA) [Fisher, Cronnelly, Miller & Sharma], **59:** 220
and pyridostigmine, and antagonism of neuromuscular blockade in dog (OA) [Hennis, Cronnelly, Sharma, Fisher & Miller], **61:** 534

neuromuscular relaxants
nondepolarizing (CO) [Kopman, Stanski & Sheiner], **52:** 454
30 per cent nitrous oxide, during inhalation and recovery (OA) [Korttila, Ghoneim, Jacobs, Mewaldt & Petersen], **54:** 220

ORG NC45
solubility
of halothane, and noninvasive *in vivo* method of assessing kinetics of metabolism of, in humans (OA) [Cahalan, Johnson, Eger, Sheiner, Richardson, Varner & Severinghaus], **57:** 298

pancuronium
(CO) [Cronnelly, Fisher & Miller], **60:** 509
(CO) [Norman], **60:** 509
and pharmacodynamics and dose-response relationships of, in control and elderly subjects (OA) [Duvaldestin, Saada, Berger, D'Hollander & Desmonts], **56:** 36
vs. pharmacodynamics, in relaxant resistance in disuse atrophy (CO) [Gronert], **57:** 143
vs. pharmacodynamics, in relaxant resistance in disuse atrophy (CO) [Holley], **57:** 142

reversed second gas effect
elimination of nitrous oxide accelerates elimination of halothane (OA) [Masuda & Ikeda], **60:** 567

sodium thiosulfate
in humans, relation to sodium nitroprusside toxicity (OA) [Ivankovich, Braverman, Stephens, Shulman & Heyman], **58:** 11
sufentil
in surgical patients (OA) [Bovill, Sebel, Blackburn, Oei-Lim & Heykants], **61:** 502
thiopental
concepts of distribution and metabolism (CO) [Tanner], **59:** 484
continuous infusion, in comparative study of intraoperative and postoperative effects (CR) [White, Dworsky, Horai & Trevor], **59:** 574
in female patients undergoing surgery (OA) [Jung, Mayersohn, Perrier, Calkins & Saunders], **56:** 263
in lean and obese patients undergoing surgery (OA) [Jung, Mayersohn, Perrier, Calkins & Saunders], **56:** 263
modelling to characterize (EV) [Stanski], **54:** 446
in patients with cirrhosis (OA) [Pandele, Chaux, Salvadori, Farinotti & Duvaldestin], **59:** 123
studies in surgical patients (OA) [Morgan, Blackman, Paull & Wolf], **54:** 468
stuidies at cesarean section (OA) [Morgan, Blackman, Paull & Wolf], **54:** 474
uptake
of halothane, interactions among ventilation, circulation and—use of hybrid computer multiple model (OA) [Fukui & Smith], **54:** 107, 119
halothane, in obese patients, recovery from (CO) [Ladegaard-Pedersen], **55:** 716
variables in, pitfalls in deriving (CO) [Feingold], **56:** 236
variables in, pitfalls in deriving (CO) [Morgan, Blackman, Paull & Mark], **56:** 237
variables in, pitfalls in deriving (CO) [Stanski], **56:** 239
variables in, pitfalls in deriving (CO) [Tanner], **56:** 235
variables in: what should be published? (CO) [Hug & Stanski], **61:** 106
variables in: what should be published? (CO) [Kopman], **61:** 106
variables, pitfalls in deriving (CO) [Mertens], **56:** 237
vecuronium
(CO) [Cronnelly, Fisher & Miller], **60:** 509
(CO) [Norman], **60:** 509
and pancuronium administered during cesarean section (OA) [Dailey, Fisher, Shnider, Baysinger, Shinohara, Miller, Aboud & Kim], **60:** 569

Pharmacology
adenosine
during controlled hypotension with, in cerebral aneurysm surgery (OA) [Sollevi, Lagerkranser, Irestedt, Gordon & Lindqvist], **61:** 400
almitrine
does it restore halothane-induced depression of hypoxic respiratory drive? (CO) [Clergue & Derenne], **61:** 627
does in restore halothane-induced depression of hypoxic respiratory drive? (CO) [Ward], **61:** 627
α-adrenergic agonists
analgesic effects associated with intrathecal actions of, studies in primate on (OA) [Yaksh & Reddy], **54:** 457
alpha-bungarotoxin
neuromuscular blockade by, potentiation by verapamil (OA) [Durant, Nguyen & Katz], **60:** 298
aminophylline
and anesthesia (CO) [Stirt & Sternick], **57:** 252
potentiates sodium nitroprusside-induced hypotension in dog (OA) [Pearl, Murad & Ashton], **61:** 712
amitriptyline
clonidine withdrawal complicated by therapy with (CR) [Stiff & Harris], **59:** 73
atropine
and propranolol, a possible undesirable interaction of (CO) [Hirshman & Downes], **53:** 525
baclofen
analgetic effects associated with intrathecal actions of, studies in primate on (OA) [Yaksh & Reddy], **54:** 457
bicuculline
in induction of seizures, and lidocaine seizure in rat, cerebral anergy state and glycolytic metabolism during (OA) [Maekawa, Oshibuchi, Takeshita & Imamura], **54:** 278
calcium antagonists
anesthetics, and cardiovascular function (EV) [Merin], **55:** 198
calcium chloride
in antagonism of hemodynamic interactions of verapamil and isoflurane (OA) [Kates, Kaplan, Guyton, Dorsey, Hug & Hatcher], **59:** 132
calcium entry blockers
and preoperative nifedipin and anesthesia in coronary heart disease (CO) [Skarvan], **59:** 362
captopril
reduces dose requirement for sodium nitroprusside induced hypotension (OA) [Woodside, Garner, Bedford, Sussman, Miller, Longnecker & Epstein], **60:** 413
cimetidine
for acid aspiration prophylaxis in elective surgery (OA) [Manchikanti, Marreo & Roush], **61:** 48
dose response, effects of, on gastric *p*H and volume in children (OA) [Goudsouzian, Coté, Liu & Dedrick], **55:** 0
clinical
of vecuronium and atracurium (RA) [Miller, Rupp, Fisher, Cronnelly, Fahey & Sohn], **61:** 444
clonidine
withdrawal, propranolol, and rebound hypertension (CO) [Bruce], **53:** 179
withdrawal, propranolol, and rebound hypertension (CO) [Kushins], **53:** 178
cyclic GMP
effect of sodium nitroprusside-induced hypotension on, in dog (OA) [Pearl, Rosenthal, Murad & Ashton], **61:** 712
dantrolene
intravenous, in pigs, asystole after (CO) [Chapin, Lou & Wingard], **54:** 527
and malignant hyperthermia (CO) [Dolan], **57:** 246
dextran
is not potent local anesthetic adjuvant (CO) [Rosenblatt], **55:** 480
diltiazem
and cardiovascular effects of, during halothane anesthesia in swine (OA) [Kates, Zaggy, Norfleet & Heath], **61:** 10
in study of relative hemodynamic effects of Ca^{++} entry blockers (EV) [Reves], **61:** 3
dipyridamole
during controlled hypotension with adenosine in cerebral aneurysm surgery (OA) [Sollevi, Lagerkranser, Irestedt, Gordon & Lindqvist], **61:** 400
dobutamine
direct properties of, in patients after open-heart operation (OA) [Hilberman, Maseda, Stinson, Derby, Spencer, Miller, Oyer & Myers], **61:** 489
renal effects of (EV) [Miller], **61:** 487
dopamine
diuretic properties of, in patients after open-heart operation (OA)

[Hilberman, Maseda, Stinson, Derby, Spencer, Miller, Oyer & Myers], **61:** 489
renal effects of (EV) [Miller], **61:** 487
dose-response curves
human, for neuromuscular blocking drugs (LR) [Donlon, Savarese, Ali & Teplick], **53:** 161
for ORG NC45 and pancuronium, in study of neuromuscular effects of ORG NC45 (OA) [Fahey, Morris, Miller, Sohn, Cronnelly & Gencarelli], **55:** 6
to pancuronium, disuse atrophy and (OA) [Gronert], **55:** 547
and potency determination for vecuronium (LR) [Fisher, Fahey, Cronnelly & Miller], **57:** 309
drug dosage, simple means of assuring proper (CO) [Goyette], **58:** 202
drug interactions
of intravenous agents for rapid sequence induction (OA) [White], **57:** 279
ethanol
and enflurane, isoflurane, and methoxyflurane metabolism in hepatic microsomes of rats treated with (OA) [Van Dyke], **58:** 221
and metabolism by rat hepatic microsomes of fluorinated ether anesthetics (OA) [Rice, Dooley & Mazze], **58:** 237
furosemide
effects of, on neuromuscular junction (OA) [Scappaticci, Sohn, Miller & Dretchen], **57:** 381
gerontologic
studies of, urged by National Institute on Aging (CO) [Steinberg], **57:** 554
hydralazine
effects of, on cardiopulmonary function in canine low-pressure pulmonary edema (CO) [Prewitt & Ghignone], **60:** 519
effects of, on cardiopulmonary function in canine low-pressure pulmonary edema (CO) [Prough & Johnston], **60:** 518
effects of, on cardiopulmonary function in canine low-pressure pulmonary edema (OA) [Ghignone, Girling & Prewitt], **59:** 187
hydrogen peroxide
may cause venous oxygen embolism (CO) [Shah, Pedemonte & Wilcock], **61:** 631
isoniazid
administration, metabolism by rat hepatic microsomes of fluorinated ether anesthetics following (OA) [Rice, Sbordone & Mazze], **53:** 489
and enflurane defluorination in humans (OA) [Mazze, Woodruff & Heerdt], **57:** 5
L-dopa
in ketamine administration to paralysis agitans patients (CO) [Hetherington & Rosenblatt], **52:** 275
methylene blue
in methemoglobinemia associated with benzocaine-containing lubricant (CR) [Kellet & Copeland], **59:** 463
metoclopramide
for acid aspiration prophylaxis in elective surgery (OA) [Manchikani, Marrero & Roush], **61:** 48
effect of, on gastric volume in early pregnancy (OA) [Wyner & Cohen], **57:** 209
does it decrease volume of gastric contents in patients undergoing cesarean section (CR) [Cohen, Jasson, Talafre, Chauvelot-Moachon & Barrier], **61:** 604
metrizamide
in neuroradiology, anesthesia and (CO) [Pyles & Pashayan], **58:** 590
morphine
epidural and intramuscular in post-cesarean patients (OA) [Youngstrom, Cowan, Sutheimer, Eastwood & Yu], **57:** 404
nifedipine
and cardiovascular effects of, during halothane anesthesia in swine (OA) [Kates, Zaggy, Norfleet & Heath], **61:** 10
in study of relative hemodynamic effects of Ca^{++} entry blockers (EV) [Reves], **61:** 3
nitroglycerin
intranasal
administration of (CR) [Hill, Bowley, Nahrwold, Knight, Kirxh & Denlinger], **54:** 346
during infrarenal aortic cross-clamp (CO) [Moon, Kim & Cookinham], **55:** 191
in pulmonary hypertension in dogs (OA) [Pearl, Rosenthal & Ashton], **58:** 514
nitroprusside
in amelioration of hypothermia after cardiopulmonary bypass in rat (OA) [Nobak & Tinker], **53:** 277
aminophylline potentiates, in dog (OA) [Pearl, Rosenthal, Murad & Ashton], **61:** 712
antagonism of effects of, by cyanide, may not be clinically relevant (CO) [Cole & Vesey], **59:** 159
antagonism of effects of, by cyanide, may not be clinically relevant (CO) [Smith, Kruszyna & Kruszyna], **59:** 160
cerebral cortical extracellular fluid H^+ and K^+ activities during hypotension with, in cats (OA) [Morris, Heuser, McDowall, Hashiba & Myers], **59:** 10
and consumption of vitamin B_{12} during administration of, in humans (OA) [Fahmy], **54:** 305
dose requirement for induced hypotension, captopril reduces (OA) [Woodside, Garner, Bedford, Sussman, Miller, Longnecker & Epstein], **60:** 413
and effects of cardiovascular function and pulmonary shunt in canine oleic pulmonary edema (OA) [Prewitt & Wood], **55:** 537
and halothane sensitization of carotid sinus baroreceptors (OA) [Seagard, Hopp, Bosnjak, Elegbe & Kampine], **58:** 432
hypertension following (CO) [Ward, Alfery & Benumof], **52:** 525
hypotension induced by, in dog, blood-brain barrier function following (OA) [Ishikawa, Funatsu, Okamoto, Takeshita & McDowall], **59:** 526
for induced hypotension in hypertensive rats (OA) [Hoffman, Albrecht, Miletich, Holland, Anderson & Seals], **56:** 427
and photodegradation of: biologic activity and cyanide release (OA) [Arnold, Longnecker & Epstein], **61:** 254
and propranolol, combined effects of, on hypoxic pulmonary vasoconstriction (OA) [Miller, Benumof & Trousdale], **57:** 267
in pulmonary hypertension in dogs (OA) [Pearl, Rosenthal & Ashton], **58:** 514
and relaxation of rabbit aortic strips, antagonized by cyanide (OA) [Kruszyna, Kruszyna & Smith], **57:** 303
sodium
in postoperative cardiac surgical patients (OA) [Maseda, Hilberman, Derby, Spencer, Stinson & Myers], **54:** 284
or saralasin, blood flow alteration induced by, in rats (OA) [Miller & Delaney], **54:** 199
and sodium thiosulfate disposition in humans (OA) [Ivankovich, Braverman, Stephens, Shulman & Heyman], **58:** 11
in study of cerebrovascular response to hypotension in hypertensive rats (OA) [Hoffman, Miletich & Albrecht], **58:** 326

ouabain
in inhibition of membrane pump, differential peripheral nerve fiber block by (OA) [Fink & Cairns], **59:** 127
pentylenetetrazol
after enflurane anesthesia in cats (OA) [Heavner & Amory], **54:** 403
pharmacodynamics
of *d*-tubocurarine, during enflurane and during halothane anesthesia, compared (OA) [Stanski, Ham, Miller & Sheiner], **52:** 483
of *d*-tubocurarine during hypothermia in humans (OA) [Ham, Stanski, Newfield & Miller], **55:** 631
of pancuronium, and pharmacokinetics and dose-response relationships of, in control and elderly subjects (OA) [Duvaldestin, Saada, Berger, D'Hollander & Desmonts], **56:** 36
verapamil, during halothane anesthesia in dog, epinephrine-induced arrhythmias and cardiovascular function after (OA) [Kpur & Flacke], **55:** 218
phospholine iodide
adequate doses of, pseudocholinesterase levels and rates of chloroprocaine hydrolysis in patients receiving (CR) [Lanks & Sklar], **52:** 434
physostigmine
and calcium, in reversal of disturbance of consciousness and hypocalcemia after neomycin irrigation (CR) [Yao, Seidman & Artusio], **53:** 69
reversal of diazepam (CO) [Rupreht], **53:** 180
propranolol
and atropine, a possible undesirable interaction of (CO) [Hirshman & Downes], **53:** 525
and nitroprusside, combined effects of, on hypoxic pulmonary vasoconstriction (OA) [Miller, Benumof & Trousdale], **57:** 267
saralasin
or sodium nitroprusside, blood flow alteration induced by, in rats (OA) [Miller & Delaney], **54:** 199
serum B_{12}
during sodium nitroprusside administration in humans (OA) [Fahmy], **54:** 305
sodium citrate
reduced volume dose of, experience with (CO) [Stoops, Ravindran & Viegas], **58:** 201
tetrodotoxin
in study differential effects of halothane on nicotinic- and muscarinic-receptor-mediated responses in dog adrenal medulla (OA) [Sumikawa, Matsumoto, Ishizaka, Nagai, Amenomori & Amakata], **57:** 444
of thiopental, and model for studying depth of anesthesia and acute tolerance to (OA) [Hudson, Stanski, Saidman & Meathe], **59:** 301
timolol maleate
eye drops, beta-receptor blockade following use of (CR) [Samuels & Maze], **52:** 369
trimethaphan
cerebral cortical extracellular fluid H^+ and K^+ activities during hypotension with, in cats (OA) [Morris, Heuser, McDowall, Hashiba & Myers], **59:** 10
hypotension induced by, in dog, blood-brain barrier function following (OA) [Ishikawa, Funatsu, Okamoto, Takeshita & McDowall], **59:** 526
uptake
neuromuscular relaxants
partition coefficient vs. dissociation rate constant as determinant of duration of blockade and (CO) [Feldman], **54:** 350
partition coefficient vs. dissociation rate constant as determinant of duration of blockade and (CO) [Stanski], **54:** 351
of sevoflurane, in healthy human volunteers (OA) [Holaday & Smith], **54:** 100
verapamil
and cardiovascular effects of, during halothane anesthesia in swine (OA) [Kates, Zaggy, Norfleet & Heath], **61:** 10
comparison of cardiovascular responses to, during enflurane, isoflurane, or halothane anesthesia in dog (OA) [Kapur, Bloor, Flacke & Olewine], **61:** 156
decreases MAC for halothane in dogs (OA) [Maze, Mason & Kates], **59:** 327
and isoflurane, hemodynamic reactions of (OA) [Kates, Kaplan, Guyton, Dorsey, Hug & Hatcher], **59:** 132
potentiation of neuromuscular blockade by (OA) [Durant, Nguyen & Katz], **60:** 298
and site of action of (CO) [Durant, Nguyen & Katz], **61:** 784
and site of action of (CO) [Foldes], **61:** 783
in study of differential effects of halothane on nicotinic- and muscarinic-receptor-mediated responses in dog adrenal gland (OA) [Sumikawa, Matsumoto, Ishizaka, Nagai, Amenomore & Amakata], **57:** 444
in study of relative hemodynamic effects of Ca^{++} entry blockers (EV) [Reves], **61:** 3
Pharyngeal teratoma, *See under* Airway
Pharynx
continuous suction of, during surgery (CO) [Greenberg, Ovnat, Peiser, Charuzi & Gesztes], **60:** 82
Phencyclidine, *See under* Pharmacology; Toxicity
Phenobarbital, *See under* Anticonvulsants; Biotransformation, drug; Hypnotics, barbiturates; Induction, enzyme
Phenothiazines, *See under* Ataractics
Phentolamine, *See under* Anesthetic techniques, hypotension, induced; Sympathetic nervous system, sympatholytic agents
Phenytoin, *See under* Anticonvulsants
Pheochromocytoma, *See under* Surgery
Phlebitis, *See under* Complications; Veins
Phosphate, *See under* Ions; Metabolism
Phospholipids, *See under* Membrane
Phrenic anesthesia, *See under* Anesthetic techniques, regional
Phrenic nerve, *See under* Nerve
Physics
density
of liquid halothane, methoxyflurane, and enflurane, between 0° and 35°C (LR) [Korman & Ritchie], **57:** 42
gas compression
measured with eight anesthetic circuits with and without inline humidification (LR) [Coté, Petkau, Ryan & Welch], **59:** 442
and SI units (CO) [deJong], **58:** 296
vapor pressure, anesthetics, mixed
(LR) [Bruce & Linde], **60:** 342
work, gram-meter and (CO) [Frank], **58:** 297
Physostigmine, *See under* Antagonists, miscellaneous; Neuromuscular relaxants; Parasympathetic nervous system; Pharmacology
P_{50}, *See under* Blood
Picrotoxin, *See under* Analeptics
Piezoelectric transducer, *See under* Equipment
Pin index, *See under* Equipment, pin-indexing
2,6-Pipecolylxylidine (PPX), *See under* Metabolism
Placenta
blood flow
human, epinephrine does not alter, during epidural anesthesia (OA) [Albright, Jouppila, Hollmén, Jouppila, Vierola & Koivula], **54:** 131

Placenta, *See under* Anesthesia, obstetric
Plasma, *See under* Blood
Plasma protein binding, *See under* Pharmacokinetics
Plasma proteins, *See under* Blood
Plasmapheresis, *See under* Blood
Platelet bioassay, *See under* Measurement techniques
Platelets, *See under* Blood
Plethysmography, *See under* Measurement techniques; Monitoring
Pleural pressure, *See under* Lung(s); Measurement techniques
Pneumocephalus, *See under* Brain; Complications
Pneumochylothorax, *See under* Complications
Pneumonectomy, intrapericardial, *See under* Lung(s)
Pneumonia, *See under* Complications; Lung(s)
Pneumoperitoneum, *See under* Ventilation
Pneumothorax, *See under* Complications
Polycythemia, *See under* Blood
Polymyxin B, *See under* Antibiotics
Polymorphonuclear leukocytes, *See under* Blood
Polypeptides
angiotensin
and blood flow alteration induced by saralasin or sodium nitroprusside in rats (OA) [Miller & Delaney], **54:** 199
response during hypotensive anesthesia induced by sodium nitroprusside or trimethaphalan camsylate (CR) [Knight, Lane, Hensinger, Bolles & Bjoraker], **59:** 248
antagonists
and blood pressure control during anesthesia (OA) [Miller, Beckman, Woodside, Althaus & Peach], **58:** 32
saralasin
in study of renovascular hypertension: effect of halothane and enflurane (OA) [Woodside, Beckman, Althaus, Peach, Longnecker & Miller], **60:** 440
beta-endorphin
maternal plasma levels of, during labor, effects of epidural anesthesia on (OA) [Abboud, Sarkis, Hung, Khoo, Varakian, Henriksen, Noueihed & Goebelsmann], **59:** 1
endorphins
and effects of naloxone on duration of sleeping time (OA) [Kraynack & Gintautas], **56:** 251
immunoreactivity, respiratory distress and, in humans (OA) [Yanagida & Corssen], **55:** 515
levels of, in patients with postoperative and chronic pain (OA) [Puig, Laorden, Miralles & Olaso], **57:** 1
and nitrous oxide interactions with opioid receptors (CO) [Gillman & Lichtigfeld], **58:** 483
plasma
immunoreactivity of, during surgery, effects of fentanyl on (OA) [Dubois, Pickar, Cohen, Gadde, Macnamara & Bunney], **57:** 468
levels of, presurgical stress and (CO) [Miralles, Olaso, Fuentes, Lopez, Laorden & Puig], **59:** 366
and their definition by antagonists (EV) [Yaksh & Howe], **56:** 246
enkephalins
and effects of naloxone on duration of sleeping time (OA) [Kraynack & Gintautas], **56:** 251
and their definition by antagonists (EV) [Yaksh & Howe], **56:** 246
renin
response during hypotensive anesthesia induced by sodium nitroprusside or trimethaphan camsylate (CR) [Knight, Lane, Hensinger, Bolles & Bjoraker], **59:** 248
renin-angiotensin
and cardiovascular systems, effects of propranolol on, during hypotension produced by sodium nitroprusside in humans (OA) [Marshall, Bedford, Arnold, Miller, Longnecker, Sussman & Hakala], **55:** 277
catecholamine, and vasopressin during nitroprusside-induced hypotension in ewes (OA) [Zubrow, Daniel, Stark, Husain & James], **58:** 245
changes in, induced by pentolinium and propranolol during surgical correction of scoliosis (OA) [Knight, Lane, Nicholls, Tait, Nahrwold, Hensinger & Cohen], **53:** 127
and dose requirement for sodium nitroprusside induced hypotension (OA) [Woodside, Garner, Bedford, Sussman, Miller, Longnecker & Epstein], **60:** 413
effect of PEEP ventilation on (OA) [Annat, Viale, Xuan, Aissa, Benzoni, Vincent, Gharib & Motin], **58:** 136
evaluation of, in maintenance of blood pressure during halothane anesthesia and sodium nitroprusside-induced hypotension (OA) [Delaney & Miller], **52:** 154
and hemodynamics in dog during controlled hypotension with adenosine (OA) [Lagerkranser, Irestedt, Sollevi & Andreen], **60:** 547
importance of, in blood pressure control during anesthesia (OA) [Miller, Beckman, Woodside, Althaus & Peach], **58:** 32
levels of, in hypertension following nitroprusside (CO) [Ward, Alfery & Benumof], **52:** 525
and renovascular hypertension: effect of halothane and enflurane (OA) [Woodside, Beckman, Althaus, Peach, Longnecker & Miller], **60:** 440
saralasin
and blood pressure control during anesthesia (OA) [Miller, Beckman, Woodside, Althaus & Peach], **58:** 32
rebound hypertension after sodium nitroprusside prevented by, in rats (OA) [Delaney & Miller], **52:** 154
Porphyria, *See under* Complications
Portal vein, *See under* Veins
Position
brachial plexus damage
detection of, by somatosensory evoked potential monitoring (CR) [Mahla, Long, McKennett, Green & McPherson], **60:** 248
effects
cardiovascular, costoclavicular syndrome and (CR) [Patel, Thein & Epstein], **53:** 341
ventilatory
and airway-obstructing supraglottic edema following anesthesia with head positioned in forced flexion (CR) [Bennett, Lee & Wright], **54:** 78
intravenous fluid containers as aids for (CO) [Brown & Cadena], **58:** 301
lateral
and prone, compared in approach to lumbar epidural space (CR) [Mustafa, Milliken & Bizzarri], **58:** 464
lithotomy
prolonged surgery in, bilateral compartment syndrome following (CR) [Lydon & Spielman], **60:** 236
nerve damage
detection of, by somatosensory evoked potential monitoring (CR) [Mahla, Long, McKennett, Green & McPherson], **60:** 248
Horner's syndrome in (CR) [Jaffe & McLeskey], **56:** 49
following prolonged surgery in lithotomy position (CR) [Lydon & Spielman], **60:** 236
somatosensory evoked potential changes in (CR) [McPherson, Szymanski & Rogers], **61:** 88
prone
advantage of, in approach to lumbar epidural space (CR) [Mustafa, Milliken & Bizzarri], **58:** 464
retinal surgery in, inexpensive simple headrest for (CO) [Wollman & Neuman], **61:** 109

safety of, in neurosurgery (CO) [Cucchiara], **61:** 790
sitting
and comparison of effects of positive end-expiratory pressure and jugular venous compression on canine cerebral venous pressure (OA) [Toung, Ngeow, Long, Rogers & Traystman], **61:** 169
skin damage
prevention of, in securing arms to armboards (CO) [Sternick & Stirt], **61:** 113
supine
measurement of pleural pressure with esophageal balloon in anesthetized humans (LR) [Higgs, Behrakis, Bevan & Milic-Emili], **59:** 340
Positive airway pressure, *See under* Ventilation
Positive end-expiratory pressure, *See under* Ventilation
Postoperative analgesia, *See under* Analgesia
Postoperative pain, *See under* Pain
Posttetanic facilitation, *See under* Monitoring
Potassium, *See under* Ions
Potency
anesthetic
age factors, *d*-tubocurarine and (OA) [Fisher, O'Keefe, Stanski, Cronnelly, Miller & Gregory], **57:** 203
alfentanil
ED_{50} of, for induction of anesthesia in unpremedicated young adults (OA) [McDonnell, Bartkowski & Williams], **60:** 136
bioassay
and intravenous anesthetics (CO) [Kissin], **53:** 351
of midazolam maleate against sodium thiopental (OA) [Sarnquist, Mathers, Brock-Utne, Carr, Canup & Brown], **52:** 149
$Cp_m(50)$, in use of vecuronium and pancuronium in anesthetized humans (OA) [Cronnelly, Fisher, Miller, Gencarelli, Nguyen-Gruenke & Castagnoli], **58:** 405
dose-response, of isoflurane, halothane, and diethyl ether for various end points of anesthesia (LR) [Kissin, Morgan & Smith], **58:** 88
ED_{50}
and age-dependent alterations in nitrous oxide requirement of mice (OA) [Koblin, Lurz & Eger], **58:** 428
of alfentanil for induction of anesthesia in unpremedicated young adults (OA) [McDonnell, Bartkowski & Williams], **60:** 136
and anesthetic doses blocking adrenergic (stress) and cardiovascular responses to incision—MACBAR (OA) [Roizen, Horrigan & Frazer], **54:** 390
of convulsant drugs in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, O'Connor, Deady & Eger], **56:** 25
determinations and applications of MAC and (OA) [Quasha, Eger & Tinker], **53:** 315
in enflurane, isoflurane, and halothane anesthesia in humans, vecuronium-induced neuromuscular blockade during (OA) [Rupp, Miller & Gencarelli], **60:** 102
of inhaled anesthetics and alcohol in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, Deady & Eger], **56:** 18
in minimum anesthetic concentrations in *Drosophila melanogaster*, strain differences in (OA) [Gamo, Ogaki & Nakashima-Tanaka], **54:** 289
and morphine-halothane interaction in rats (OA) [Kissin, Kerr & Smith], **60:** 553
of nitrous oxide, cyclopropane, enflurane, and isoflurane, in quaking mouse (OA) [Koblin], **54:** 17
nitrous oxide, selective breeding altering murine resistance to, without alteration in synaptic membrane lipid composition (OA) [Koblin, Dong, Deady & Eger], **52:** 401
of pancuronium and ORG NC45, in study of neuromuscular effects of ORG NC45 (OA) [Fahey, Morris, Miller, Sohn, Cronnelly & Gencarelli], **55:** 6
of pancuronium, and pharmacokinetics and pharmacodynamics of, in control and elderly subjects (OA) [Duvaldestin, Saada, Berger, D'Hollander & Desmonts], **56:** 36
in thiopental-lidocaine combination in rat (LR) [Kissin & McGee], **57:** 311
and safety margins for isoflurane and halothane, compared (LR) [Kissin, Morgan & Smith], **58:** 556
in study of TENS and halothane requirements during hand surgery (CR) [Bourke, Smith, Erickson, Gwartz & Lessard], **61:** 769
and effects of halothane and enflurane on schedule-controlled behavior in rat (OA) [Garfield & Vivaldi], **59:** 207
for enflurane, heart rate response to nociceptive stimulation as index of (CO) [Kissin & Morgan], **58:** 109
ketamine isomers, in surgical patients (OA) [White, Ham, Way & Trevor], **52:** 231
LD_{50}, and safety margins for isoflurane and halothane, compared (LR) [Kissin, Morgan & Smith], **58:** 556
LD_{50}, determinations and applications of MAC and (OA) [Quasha, Eger & Tinker], **53:** 315
LD_{50}, of inhaled anesthetics and alcohol in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, Deady & Eger], **56:** 18
MAC
and anesthetic doses blocking adrenergic (stress) and cardiovascular responses to incision—MACBAR (OA) [Roizen, Horrigan & Frazer], **54:** 390
and anesthetic requirements for halothane in young children 0–1 month and 1–6 months of age (OA) [Lerman, Robinson, Willis & Gregory], **59:** 421
of cyclopropane, in rats, effect of acute phencyclidine administration on (OA) [Raja, Moskicki, Woodside & DiFazio], **56:** 275
determination and applications of (OA) [Quasha, Eger & Tinker], **53:** 315
and effect of halothane on cardiac acceleration response to somatic nerve stimulation in dogs (OA) [Kissin & Green], **61:** 708
effects of doxapram, physostigmine, or naloxone on, and electroencephalographic evidence of arousal in dogs from halothane after (OA) [Roy & Stullken], **55:** 392
enflurane, anesthetic potency of fentanyl in terms of its reduction of (OA) [Murphy & Hug], **57:** 485
in enflurane, isoflurane, and halothane anesthesia in humans, vecuronium-induced neuromuscular blockade during (OA) [Rupp, Miller & Gencarelli], **60:** 102
halothane, in dogs, epinephrine-induced arrhythmias during, lidocaine, bupivacaine, and etidocaine in (OA) [Chapin, Kushins, Munson & Schick], **52:** 23
for halothane, during pregnancy and lactation in rats (LR) [Strout & Nahrwold], **55:** 322
of halothane in humans, induction of anesthesia with midazolam decreases (CR) [Melvin, Johnson, Quasha & Eger], **57:** 238
for halothane, verapamil decreases, in dogs (OA) [Maze, Mason & Kates], **59:** 327
measurements, and baroreflex control of heart rate in man awake and during enflurane and enflurane-nitrous oxide anesthesia (OA) [Morton, Duke & Ong], **52:** 221
and oil/gas partition coefficients, of four anesthetic isomers

(OA) [Koblin, Eger, Johnson, Collins, Harper, Terrell & Speers], **54:** 314
in study of TENS and halothane requirements during hand surgery (CR) [Bourke, Smith, Erickson, Gwartz & Lessard], **61:** 769
values of mixtures (CO) [Bruce], **59:** 609
requirement, determination and applications of MAC and (OA) [Quasha, Eger & Tinker], **53:** 315
righting reflex, and age-dependent alterations in nitrous oxide requirement of mice (OA) [Koblin, Lurz & Eger], **58:** 428
righting reflex, of inhaled anesthetics and alcohol in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, Deady & Eger], **56:** 18
tail-clamp ED_{50}, of inhaled anesthetics and alcohol in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, Deady & Eger], **56:** 18
tolerance
acute, to thiopental (CO) [Mark], **60:** 526
canine cerebral metabolic, during 24 hours deep pentobarbital anesthesia (OA) [Gronert, Michenfelder, Sharbrough & Milde], **55:** 110
determination and application of MAC and (OA) [Quasha, Eger & Tinker], **53:** 315
to high-dose barbiturate treatment in patients with severe head injuries (CR) [Sawada, Sugimoto, Kobayashi, Ohashi, Yoshioka & Sugimoto], **56:** 53
to ketamine, development of, in infant undergoing repeated anesthesia (CR) [Byer & Gould], **54:** 255
of 30 per cent nitrous oxide, during inhalation and recovery (OA) [Korttila, Ghoneim, Jacobs, Mewaldt & Petersen], **54:** 220
righting reflex
nitrous oxide, selective breeding altering, in mice, without alteration in synaptic membrane lipid composition (OA) [Koblin, Dong, Deady & Eger], **52:** 401
Potentials, *See under* Nerve
Power-spectrum analysis, *See under* Monitoring
Prakash, O. (ed.)
Applied Physiology in Clinical Respiratory Care (BR), **60:** 335
Pre-eclampsia, *See under* Anesthesia, obstetric
Pregnancy
abortion
in dental workers following exposure to anesthetic gases (EV) [Michenfelder], **53:** 1
therapeutic
low-dose enflurane does not increase blood loss during (CR) [Sidhu & Cullen], **57:** 127
cesarean section
anesthesia for (RA) [Datta & Alper], **53:** 142
elective, comparison of cimetidine with antacid for safety and effectiveness in reducing gastric acidity before (OA) [Hodgkinson, Glassenberg, Joyce, Coombs, Ostheimer & Gibbs], **59:** 86
and different cardiovascular effects of oxytocic drugs (CO) [Barros], **57:** 70
and intubation, aspiration prophylaxis in midtrimester abortions? (CO) [Dehring & McDonald], **61:** 223
and intubation, aspiration prophylaxis in midtrimester abortions? [White], **61:** 224
labor
with epidural analgesia, minute ventilation and oxygen consumption during (OA) [Hagerdal, Morgan, Sümner & Gutsche], **59:** 425
epidural anesthesia during, effects of, on maternal plasma beta-endorphins levels (OA) [Abboud, Sarkis, Hung, Khoo, Varakian, Henriksen, Noueihed & Goebelsmann], **59:** 1
orally administered antacid therapy during, patient acceptance of (CO) [Dewan, Floyd, Grant, James, Wheeler, Westmoreland & Rhyne], **52:** 526
and lactation in rats, halothane requirement during (LR) [Strout & Nahrwold], **55:** 322
mitral valve prolapse in, bupivacaine cardiotoxicity in (CO) [Conklin & Ziadlou-Rad], **58:** 596
neutralizing capacity of particulate antacids in (CO) [Eyler & Zaccari], **58:** 591
neutralizing capacity of particulate antacids in (CO) [Gibbs & Banner], **58:** 592
nitrous oxide and fentanyl anesthesia in, effects of, on fetal heart-rate variability intra- and postoperatively (CR) [Johnson & Colley], **52:** 429
nonasphyxiated and asphyxiated baboon fetuses, toxicity and distribution of lidocaine in (OA) [Morishima & Covino], **54:** 182
pseudocholinesterase
prolonged chloroprocaine epidural block and (CR) [Kuhnert, Philipson, Pimental & Kuhnert], **56:** 477
Premedication
atropine
oral, efficacy of, for pediatric outpatient surgery (CR) [Brzustowicz, Nelson, Betts, Rosenberry & Swedlow], **60:** 475
cimetidine
for acid aspiration prophylaxis in elective surgery (OA) [Manchikanti, Marrero & Roush], **61:** 48
diazepam
and lorazepam, time course of antirecall effect of, following oral administration (OA) [Kothary, Brown, Pandit, Samra & Pandit], **55:** 641
oral, efficacy of, for pediatric outpatient surgery (CR) [Brzustowicz, Nelson, Betts, Rosenberry & Swedlow], **60:** 475
flunitrazepam
orally administered to children, respiratory depression following (CR) [Forster, Gamulin, Morel, Weiss & Rouge], **61:** 597
in management of children for surgery (CO) [Beeby & Worthen], **61:** 638
meperidine
oral, efficacy of, for pediatric outpatient surgery (CR) [Brzustowicz, Nelson, Betts, Rosenberry & Swedlow], **60:** 475
metoclopramide
for acid aspiration prophylaxis in elective surgery (OA) [Manchikanti, Marrero & Roush], **61:** 48
in short-stay surgery, zomepirac and codeine compared as (CR) [Dunn, Morison, Fargas-Babjak & Goldsmith], **58:** 265
Pressoreceptors, *See under* Receptors, pressor-
Pressure, *See also under* Cerebrospinal fluid; Eye, intraocular; Heart, atrial, ventricular; Hyperbaria; Hypobaria; Lung, intravascular; Measurement techniques; Microcirculation; Temperature, vapor; Ventilation, airway, positive end-expiratory, zero end-expiratory
blood, *See under* Blood pressure
monitoring, *See under* Monitoring
pulmonary vascular
measurement of, with detection of end-exhalation period by airway thermistor (CR) [Oden, Mitchell & Benumof], **58:** 467
Pressure measurements, *See under* Measurement techniques
Pressure reversal, *See under* Hyperbaria; Theories of anesthesia
Pressure-volume relationships, *See under* Ventilation
Prilocaine, *See under* Anesthetics, local
Procaine, *See under* Anesthetics, local

Promethazine, *See under* Ataractics, phenothizines
Propranolol, *See under* Heart, arrhythmias; Sympathetic nervous system, beta-adrenergic blocking drugs, sympatholytic agents
Prostaglandins, *See under* Hormones
Prostatectomy, *See under* Surgery, urologic
Protamine, *See under* Blood, coagulation
Protection
cerebral, *See under* Brain
Protein, *See also under* Metabolism; specific organs
albumin
distribution, in dogs, influence of ventilation on (OA) [Marshall, Berry, Marshall & Geer], **57:** 103
and pharmacokinetics of thiopental in patients with cirrhosis (OA) [Pandele, Chaux, Salvadori, Farinotti & Duvaldestin], **59:** 123
alpha-1-acid glycoprotein
alterations in chronic pain patients (CR) [Fukui, Hameroff & Gandolfi], **60:** 494
beta endorphin
alterations in chronic pain patients (CR) [Fukui, Hameroff & Gandolfi], **60:** 494
binding
of bupivacaine, influence of lactic acid on (OA) [Coyle, Denson, Thompson, Myers, Arthur & Bridenbaugh], **61:** 127
determination of, in study of pharmacokinetics of midazolam in chronic renal failure patients (OA) [Vinik, Reves, Greenblatt, Abernethy & Smith], **59:** 390
and pharmacokinetics of thiopental in patients with cirrhosis (OA) [Pandele, Chaux, Salvadori, Farinotti & Duvaldestin], **59:** 123
plasma, elevated, cannot account for burn-related *d*-tubocurarine hyposensitivity (OA) [Leibel, Martyn, Szyfelbein & Miller], **54:** 378
of thiopental, studies at cesarean section (OA) [Morgan, Blackman, Paull & Wolf], **54:** 474
of thiopental, studies in surgical patients (OA) [Morgan, Blackman, Paull & Wolf], **54:** 368
in thiopental anesthesia (OA) [Burch & Stanski], **58:** 146
in human malignant hyperthermic muscle (LR) [Blanck, Fisher, Thompson & Muldoon], **61:** 589
plasma
elevated binding of, cannot account for burn-related *d*-tubocurarine hyposensitivity (OA) [Leibel, Martyn, Szyfelbein & Miller], **54:** 378
synthesis
in lung, inhibition of, additive effects of pentobarbital and halothane in (OA) [Rannels, Roake & Watson], **57:** 87
Protein binding, *See under* Protein
Protocol, *See under* Statistics
Pruritus, *See under* Complications
Prys-Roberts, C. (ed.)
The Circulation in Anaesthesia. Applied Physiology and Pharmacology (BR), **53:** 531
Pseudocholinesterase, *See also under* Biotransformation (drug); Enzymes
stress, and plasma endorphin levels (CO) [Miralles, Olaso, Fuentes, Lopez, Laorden & Puig], **59:** 366
Psilocin, *See under* Psychologic responses, hallucinations
Psychologic responses
awareness during surgery and (EV) [Blancher], **61:** 1
behavior
schedule-controlled, in rat, effects of halothane and enflurane on (OA) [Garfield & Vivaldi], **59:** 207
children
following general anesthesia (OA) [Morgan, Furman & Dikmen], **55:** 386
and management for surgery (CO) [Beeby & Worthen], **61:** 638
hallucinations
mushrooms, intoxication caused by, physostigmine reversal of (CR) [van Poorten, Stienstra, Dworacek, Moleman & Rupreht], **56:** 313
neonatal, neonatal neurologic and adaptive capacity score (NACS) and (CO) [Amiel-Tison, Barrier, Shnider, Levinson, Hughes & Stefani], **56:** 492
psilocin in urine in, in psilocybin intoxication (CR) [van Poorten, Stienstra, Dworacek, Moleman & Rupreht], **56:** 313
psilocybin intoxication causing, physostigmine reversal of (CR) [van Poorten, Stienstra, Dworacek, Moleman & Rupreht], **56:** 313
of patient to spinal anesthetic: need for reassurance (CO) [Ramsey], **60:** 520
Psychomotor function
Continuous Performance Test
in study of effectiveness of physostigmine as antagonist of respiratory depression and psychomotor effects caused by morphine or diazepam (OA) [Bourke, Rosenberg & Allen], **61:** 523
Trieger Dot Test, *See under* Psychomotor function
in study of effectiveness of physostigmine as antagonist of respiratory depression and psychomotor effects caused by morphine or diazepam (OA) [Bourke, Rosenberg & Allen], **61:** 523
Publications, *See under* Education; Research
Pulmonary artery, *See under* Arteries
Pulmonary artery catheters, *See under* Equipment; Monitoring
Pulmonary artery pressure, *See under* Monitoring
Pulmonary artery rupture, *See under* Complications
Pulmonary artery wedge pressure, *See under* Monitoring
Pulmonary disease, obstructive, *See under* Lung(s)
Pulmonary edema, *See under* Complications; Lung(s)
Pulmonary embolism, *See under* Complications
Pulmonary function, *See under* Lung(s)
Pulmonary hypertension, *See under* Lung(s)
Pulmonary vascular resistance, *See under* Hemodynamics
Pulmonary volumes, *See under* Lung(s)
Pulse monitor, *See under* Equipment; Measurement techniques
Pulse oximeter, *See under* Measurement techniques
Pulse rate, *See under* Heart
Pupil, *See under* Eyes
Purkinje fibers, *See under* Heart
Pyrexia, *See under* Hyperthermia
Pyridostigmine, *See under* Antagonists, neuromuscular relaxants
Pyruvate, *See under* Metabolism

R

Radial artery, *See under* Arteries
Radical neck dissection, *See under* Surgery
Radioactive tracers, *See under* Measurement techniques
Radioimmunoassay, *See under* Measurement techniques
Radiologic anesthesia, *See under* Anesthesia
Radnay, P. A., and Nagashima, H. (eds.)
Anesthetic Consideration for Pediatric Considerations for Pediatric Cardiac Surgery (International Anesthesiology Clinics) (BR), **54:** 175
Ranitidine, *See under* Histamine
Rapid sequence induction, *See under* Anesthetic techniques
Rate pressure product, *See under* Heart

Rate response, *See under* Heart
Ream, A. K. and Fogdall, R. P.
Acute Cardiovascular Management (BR), **61:** 485
Rebreathing, *See under* Carbon dioxide
Recall, *See under* Complications; Memory
Receptor occlusion, *See under* Neuromuscular transmission
Receptors
acetylcholine
responses mediated by, of dog adrenal medulla, selective actions of intravenous anesthetics on (OA) [Sumikawa, Matsumoto, Amenomori, Hirano & Amakata], **59:** 412
adrenergic
function of, clinical implications of, in anesthesia (MI) [Maze], **55:** 160
mediating epinephrine-induced arrhythmias during halothane anesthesia in dog (OA) [Maze & Smith], **59:** 322
studies of, in primate (OA) [Yaksh & Reddy], **54:** 457
alpha adrenergic
agonists, thiopental potentiation of isolated rabbit pulmonary artery contractions with (OA) [Fukuda, Inomata, Tsuji & Takeshita], **60:** 187
aortic arch
in initiation of renal response to continuous positive-pressure ventilation in dog (OA) [Fewell & Bond], **52:** 408
baclofenergic
studies of, in primate (OA) [Yaksh & Reddy], **54:** 457
baroreceptor
carotid sinus, extent and mechanism of halothane sensitization of (OA) [Seagard, Hopp, Bosnjak, Elegbe & Kampine], **58:** 432
carotid sinus, local versus central effect of halothane on (OA) [Behnia & Koushanpour], **61:** 161
in control of heart rate in man awake and during enflurane and enflurane-nitrous oxide anesthesia (OA) [White, Ham, Way & Trevor], **52:** 221
does isoflurane preserve responsiveness of, better than halothane or enflurane? (CO) [Roy], **61:** 482
sinaortic
role of, in initiating renal response to continuous positive-pressure ventilation in dog (OA) [Fewell & Bond], **52:** 408
beta adrenergic
and pancuronium (CO) [Pinaud & Souron], **60:** 512
carotid body
anesthetic depression of breathing and (EV) [Hornbein], **61:** 119
and site of selective action of halothane on peripheral chemoreflex pathway in humans (OA) [Knill & Clement], **61:** 121
chemoreceptors
anesthetic depression of breathing and (EV) [Hornbein], **61:** 119
carotid body, during anesthesia (EV) [Knill & Gelb], **57:** 151
carotid body, to hypoxia and hypercapnia in cat, halothane depresses response of (OA) [Davies, Edwards & Lahiri], **57:** 153
and site of selective action of halothane on peripheral chemoreflex in humans (OA) [Knill & Clement], **61:** 121
and sites of action of halothane on respiratory pattern and ventilatory response to CO_2 in cats (OA) [Berkenbosch, de Goede, Olievier & Quanjer], **57:** 389
stimulants of, and oxygen drive to breathing during halothane anesthesia (CO) [Clergue & Derenne], **61:** 627
stimulants of, and oxygen drive to breathing during halothane anesthesia (CO) [Ward], **61:** 627
stimulants of, and oxygen drive to breathing during halothane anesthesia (OA) [Clergue, Ecoffey, Derenne & Viars], **60:** 125
cholinergic
function of, clinical implications of, in anesthesia (MI) [Maze], **55:** 160
in succinylcholine-induced contracture, effects of spinal cord transection on, in rats (OA) [Carter, Sokoll & Gergis], **55:** 542
dopamine
d-tubocurarine as antagonist of, in rabbit ear artery (OA) [Nelson & Steinsland], **59:** 98
function of, clinical implications of, in anesthesia (MI) [Maze], **55:** 160
muscarinic
and nicotinic responses of dog adrenal medulla to, differential effects of halothane on (OA) [Sumikawa, Matsumoto, Ishizaka, Nagai, Amenomori & Amakata], **57:** 444
responses mediated by, of dog adrenal medulla, selective actions of intravenous anesthetics on (OA) [Sumikawa, Matsumoto, Amenomori, Hirano & Amakata], **59:** 412
nicotinic
and muscarinic responses of dog adrenal medulla to, differential effects of halothane on (OA) [Sumikawa, Matsumoto, Ishizaka, Nagai, Amenomori & Amakata], **57:** 444
responses mediated by, of dog adrenal medulla, selective actions of intravenous anesthetics on (OA) [Sumikawa, Matsumoto, Amenomori, Hirano & Amakata], **59:** 412
opiate
density of, in rat brainstem, prolonged exposure to nitrous oxide decreases (OA) [Ngai & Finck], **57:** 26
and effects of intravenous or subarachnoid morphine on cerebral and spinal cord hemodynamics and antagonism with naloxone in dogs (OA) [Matsumiya & Dohi], **59:** 175
and effects of spinally administered agents on spinal cord blood flow (EV) [Yaksh], **59:** 173
influence of anesthesia on, in cerebrospinal fluid of humans (OA) [Way, Hosobuchi, Johnson, Eger & Bloom], **60:** 43
mediation of ketamine analgesia (OA) [Finck & Ngai], **56:** 291
and naloxone as influence on duration of narcosis (OA) [Kraynack & Gintautas], **56:** 251
need for clearer distinction between anesthesia and analgesia in relation to (CO) [Gillman & Footerman], **54:** 524
nitrous oxide interacts with (CO) [Gillman & Lichtigfeld], **58:** 483
in spinal cord, and spinal action of narcotic analgesics (RA) [Kitahata & Collins], **54:** 153
studies of, in primate (OA) [Yaksh & Reddy], **54:** 457
in studies of multiple mechanisms of pain inhibition intrinsic to central nervous system (EV) [Liebeskind], **54:** 445
and their definition by antagonists (EV) [Yaksh & Howe], **56:** 246
pressoreceptors
adult and baby rabbits, effect of halothane on baroresponse of (OA) [Wear, Robinson & Gregory], **56:** 188
carotid sinus, in initiation of renal response to continuous positive-pressure ventilation in dog (OA) [Fewell & Bond], **52:** 408
carotid sinus syndrome, intraoperative management facilitated by temporary transvenous demand pacing (CR) [Brown & Watson], **56:** 151
evaluation of, in studies of coronary artery occlusion (EV) [Tinker], **54:** 449
stretch
evaluation of, in studies of coronary artery occlusion (EV) [Tinker], **54:** 449
sympathetic nervous system
droperidol as selective antagonists of, in canine saphenous vein (OA) [Hyatt, Muldoon, & Rorie], **53:** 281

Records, anesthesia, *See under* Statistics
Recovery
from anesthesia
for ambulatory surgery, neurologic state and psychomotor function (CR) [Azar, Karambelkar & Lear], **60:** 567
reversed second gas effect in (OA) [Masuda & Ikeda], **60:** 567
delayed
from general anesthesia, neonatal sepsis presenting as (CR) [Hinkle], **57:** 412
neonatal depsis and (CO) [Mayhew & Taylor], **59:** 77
delirium
in nitrous oxide withdrawal syndrome (OA) [Rupreht, Dworacek, Ducardus, Schmitz & Dzoljic], **58:** 524
following general anesthesia for morbidly obese patients (OA) [Cork, Vaughan & Bentley], **54:** 310
from general anesthesia, by children (OA) [Morgan, Furman & Dikmen], **55:** 386
from general anesthesia, in obese patients (CO) [Ladegaard-Pedersen], **55:** 716
from general anesthesia, unilateral reexpansion pulmonary edema during (CR) [Milne, Spence, Lynn & Sleeman], **59:** 244
halothane and enflurane, relationship of concentrations of, in man (OA) [Cahalan, Johnson & Eger], **54:** 3
ketamine
isomers, in surgical patients (OA) [White, Ham, Way & Trevor], **52:** 231
and kinetics of halothane metabolism in humans, noninvasive *in vivo* method of assessing (OA) [Cahalan, Johnson, Eger, Sheiner, Richardson, Varner & Severinghaus], **57:** 298
measurement of
in study of effectiveness of physostigmine as antagonist of respiratory depression and psychomotor effects caused by morphone or diazepam (OA) [Bourke, Rosenberg & Allen], **61:** 523
postural stability, in evaluation of residual effects of anesthesia (OA) [Korttila, Ghoneim, Jacobs & Lakes], **55:** 625
following thiopental anesthesia in lean and obese surgical patients (OA) [Jung, Mayersohn, Perrier, Calkins & Saunders], **56:** 269
time course of mental and psychomotor effects of 30 per cent nitrous oxide during inhalation and (OA) [Korttila, Ghoneim, Jacobs, Mewaldt & Petersen], **54:** 220
ventilation
and life-threatening apnea in infants recovering from anesthesia (OA) [Liu, Cote, Goudsouzian, Ryan, Firestone, Dedrick, Liu & Todres], **59:** 506
and life-threatening perioperative apnea in ex-"premie" (EV) [Gregory & Steward], **59:** 495
Rectal anesthesia, *See under* Anesthetic techniques; Anesthetics, rectal
Redox state, *See under* Heart
Reflective heating blanket, *See under* Equipment
Reflexes, See also under Parasympathetic nervous system; Sympathetic nervous system
during awakening from anesthesia (OA) [Rosenberg, Clofine & Bialik], **54:** 125
baroreceptor
activity in conscious and isoflurane-anesthetized dogs (OA) [Seagard, Hoop, Bosnjak, Osborn & Kampine], **61:** 266
complex effects of isoflurane on (CO) [Boyce & Routman], **61:** 479
complex effects of isoflurane on (CO) [Seagard], **61:** 480
in control of heart rate during isoflurane anesthesia in humans (OA) [Kotrly, Ebert, Vucins, Igler, Barney & Kampine], **60:** 173
control of heart rate during morphine sulfate, diazepam, N_2O/O_2 anesthesia in humans (OA) [Korly, Ebert, Vucins, Roerig & Kampine], **61:** 558
effects of halothane on (OA) [Seagard, Hopp, Bosnjak, Elegbe & Kampine], **58:** 432
does isoflurane preserve responsiveness of, better than halothane or enflurane? (CO) [Kotrly], **61:** 483
sensitivity of, resetting of, after induced hypotension (OA) [Chen, Matteo, Fan, Schuessler & Chien], **56:** 29
baroreflexes
carotid sinus, local versus central effect of halothane on (OA) [Behnia & Koushanpour], **61:** 161
baroresponse
and cardiovascular depression by halothane in infants (CO) [Friesen], **58:** 387
and cardiovascular depression by halothane in infants (CO) [Ware, Robinson & Gregory], **58:** 387
neonatal
neonatal neurologic and adaptive capacity score (NACS) and (CO) [Amiel-Tison, Barrier, Shnider, Levinson, Hughes & Stefani], **56:** 492
vascular
evaluation of, in coronary artery occlusion (EV) [Tinker], **54:** 449
Refractory period, *See under* Heart
Regional anesthesia, *See under* Anesthetic techniques, peridural, regional, spinal
Regional blood flow, *See under* Blood; Hemodynamics
Regulation, *See under* Ventilation
Regurgitation, *See under* Complications
Relief valves, *See under* Equipment
Renal failure, *See under* Diseases; Kidney
Renal function, *See under* Kidney
Renin, *See under* Polypeptides
Renin-angiotensin, *See under* Polypeptides
Renovascular hypertension, *See under* Hypertension
Replication, *See under* Cells; Mitosis
Reports of Scientific Meetings, *See under* Organizations
Research, *See also under* Anesthesia
animal care
humaneness of anesthetic induction technique in, questioned (CO) [Gilroy], **59:** 260
humaneness of anesthetic induction technique in, questioned (CO) [Murphy & Hug], **59:** 260
publications
anesthesiology, statistics should support (CO) [Stanley & Pace], **58:** 297
draft standards are not acceptable references for (CO) [Hedley-Whyte], **57:** 432
duplication and fragmentation in (CO) [Bromage], **57:** 550
duplication and fragmentation in (CO) [Steen], **57:** 550
use of negative exponents in (EV) [Michenfelder], **58:** 305
SI units, typographic error in explanation of (CO) [Severinghaus], **59:** 486
survey of performances of six anesthesia journals (CO) [Fassoulaki, Mihas & Kaniaris], **53:** 346
Reserpine, *See under* Ataractics, Rauwolia; Sympathetic nervous system, sympatholytics
Residents, *See under* Education; Manpower
Resistance, *See under* Airway; Blood, viscosity; Blood pressure, peripheral vascular resistance; Electrical systems, conductivity, grounding; Lung(s), respiratory resistance
Respiration, *See under* Metabolism, oxygen consumption; Ventilation
Respiratory acidosis, *See under* Acid-base equilibrium
Respiratory alkalosis, *See under* Acid-base equilibrium

Respiratory complications, *See under* Complications
Respiratory depression, *See under* Complications
Respiratory distress, *See under* Complications; Lung(s)
Respiratory failure, *See under* Lung(s); Ventilation, failure
Respiratory infections, *See under* Infection
Respiratory quotient, *See under* Metabolism
Respiratory resistance, *See under* Lung(s)
Resting ventilation, *See under* Ventilation, artificial
Resuscitation, *See under* Brain; Complications; Drowning; Heart; Shock; Transfusion; Ventilation
Resuscitation bag, *See under* Equipment
Reticular activating system, *See under* Brain
Reticulum
sarcoplasmic, *See under* Muscle, skeletal
Retinal hemorrhage, *See under* Complications
Retrolental fibroplasia, *See under* Complications; Eye
Reversed second gas effect, *See under* Pharmacokinetics
Rexed laminae, *See under* Spinal cord
Righting reflex, *See under* Potency, anesthetic
Rigidity, *See under* Complications
Ritodrine, *See under* Sympathetic nervous system, beta-agonist
RNA, *See under* Metabolism
RO 15-1788, *See under* Antagonists, benzodiazepine
Ropper, A. L., Kennedy, S. K., and Zervas, N. T. (eds.)
Neurological and Neurosurgical Intensive Care (BR), **59:** 171
Rosen, P. and Sternbach, G. L.
Atlas of Emergency Medicine (BR), **52:** 288
Rubella, *See under* Complications
Rubenstein-Taybi syndrome, *See under* Complications
Rugheimer, E., and Zindler, M. (eds.)
Anesthesiology-Proceedings of the 7th World Congress of Anaesthesiologists: Hamburg, September 14–21, 1980 (BR), **56:** 77
Ruppel, G.
Manual of Pulmonary Function Testing (BR), **52:** 195

S

Saralasin, *See under* Anesthetic techniques, hypotension, induced; Pharmacology; Polypeptides, antagonists
Scavengers, *See under* Equipment
Scheck, P. A., Sjostrand, U. H., Smith, R. B.
Perspectives in High Frequency Ventilation (BR), **61:** 234
Schumer, W., Spitzer, J. J. and Marshall, B. E.
Advances in Shock Research (BR), **52:** 197
Schutz, R. C.
Outpatient Surgery (BR), **52:** 530
Sciatica, *See under* Pain
Scientific meetings, reports of, *See under* Organizations
Scurr, C., Feldman, S.
Scientific Foundations of Anaesthesia (BR), **59:** 268
Second gas effect, reversed, *See under* Pharmacokinetic
Sedation, *See under* Anesthetic techniques
Seizure threshold, *See under* Brain; Complications, convulsions
Seizures, *See under* Analgesics; Brain, convulsions; Complications, convulsions; Toxicity, convulsions
Selected ion monitoring, *See under* Measurement techniques
Sepsis, *See under* Infections
Septic shock, *See under* Shock
Septicemia, *See under* Infection
Serotonin, *See under* Neurotransmitters
Sevoflurane, *See under* Anesthetics, volatile
Shapiro, B. A., Harrison, R. A. and Trout, C. C.
Clinical Application of Respiratory Care (BR), **53:** 272
Shires, G. T.
Care of the Trauma Patient (BR), **52:** 530
Care of the Trauma Patient (BR), **54:** 532
Shivering, *See under* Temperature
Shock
cerebral protection by isoflurane during (OA) [Newberg & Michenfelder], **59:** 29
hemorrhagic
and cardiac arrest, during laparoscopic tubal ligation (CR) [Chapin, Hurlbert & Scheer], **53:** 342
in massive occult hemorrhage during hip surgery (CR) [Lombard & Couper], **58:** 472
in rats, anesthetic influence on arteriolar diameters and tissue oxygen tension in (OA) [Longnecker, Ross & Silver], **57:** 177
tissue perfusion
and cardiac output, influence of ketamine anesthesia on, in rats subjected to hemorrhage (OA) [Idvall], **55:** 297
Shoup, C. A., and McHenry, R. N.
Laboratory Exercises in Respiratory Failure (BR), **52:** 289
Shunting, *See under* Heart; Lung(s); Oxygen, gradients; Ventilation
SI units, *See under* Measurement techniques
Silicone, *See under* Equipment
Silicone embolizing substance, *See under* Embolism
Sindermann, C. J.
Winning the Games Scientists Play (BR), **59:** 613
Sinoatrial node, *See under* Heart
Sinus bradycardia, *See under* Complications
Sitting, *See under* Position
Skeletal muscle, *See under* Muscle
Skin
damage, *See also under* Position
burns, severe, from EKg electrodes (CO) [Chandra], **56:** 157
Slack, S. J., DeKornfeld, T. J.
Anesthesiology, Continuing Education Review, Second Edition (BR), **61:** 118
Sleep
oxygen consumption
and during anesthesia, in dogs (OA) [Mikat, Peters, Zindler & Arndt], **60:** 220
Smith, N. T., Miller, R. D., and Corbascio, A. N. (eds.)
Drug Interactions in Anesthesia (BR), **56:** 159
Smith, W. D. A.
Under the Influence. A History of Nitrous Oxide and Oxygen Anaesthesia (BR), **59:** 269
Smoking, *See under* Complications; Lung(s)
Smooth muscle, *See under* Muscle
Snow, J. C., with nine contributors
Manual of Anesthesia (BR), **60:** 84
Society of Cardiovascular Anesthesiologists, *See under* Organizations
Sodium, *See under* Acid-base equilibrium; Ions
Sodium citrate, *See under* Pharmacology
Sodium dithionite, *See under* Measurement techniques
Sodium nitroprusside, *See under* Anesthetic techniques, hypotension, induced
Soleus muscle, *See under* Muscle
Solubility
blood
of volatile anesthetics, age and (OA) [Lerman, Gregory, Willis & Eger], **61:** 139
partition coefficients
of anesthetics in aqueous solutions at 37°, osmolarity determines (LR) [Lerman, Willis, Gregory & Eger], **59:** 564
and molecular weight of cation as determinant of speed of onset of neuromuscular blockade (CO) [Ramzan], **57:** 247

of nitrous oxide in olive oil, new value for (CO) [Cooper & Joseph], **55:** 716
Somatosensory evoked responses, *See under* Brain; Monitoring
Somatosensory monitoring, *See under* Monitoring
Sonomicrometry, *See under* Equipment
Sore throat, *See under* Complications
Spasm, arterial, *See under* Arteries
Spasm, muscular, *See under* Muscle
Spectrometer, mass, *See under* Equipment
Spectrophotometry, *See under* Measurement techniques
Spectroscopy, *See under* Measurement techniques
Sperm morphology, *See under* Testis
Spermatogenesis, *See under* Testis
Spermatotoxicity, *See under* Toxicity
Spinal anesthesia, *See under* Anesthetic techniques
Spinal block, total, *See under* Complications
Spinal cord
blood flow
during correction of scoliosis, arterial pressure manipulation alters (CR) [Grundy, Nash & Brown], **54:** 249
effects of intravenous or subarachnoid morphine on, and antagonism with naloxone in dogs (OA) [Matsumiya & Dohi], **59:** 175
effects of spinally administered agents on (EV) [Yaksh], **59:** 173
effects of subarachnoid lidocaine and phenylephrine on, in dogs (OA) [Dohi, Matsumiya, Takeshima & Naito], **61:** 238
compression
and migrating disc complicating spinal decompression in achrondroplastic dwarf (CR) [McPherson, North Uduarhelyi & Rosenbaum], **61:** 764
dorsal horn ganglia
as site of blockade during epidural anesthesia (CO) [Frumin], **54:** 524
evoked potentials
alterations in, with epidural bupivacaine (OA) [Cusick, Myklebust, Abram & Davidson], **57:** 31
by epidurally administered local anesthetics (OA) [Cusick, Myklebust & Abram], **53:** 299
function
during correction of scoliosis, arterial pressure manipulation alters (CR) [Grundy, Nash & Brown], **54:** 249
glucose utilization
in, and in brain, comparison of local rates of, in conscious and nitrous oxide- or pentobarbital-treated rats (OA) [Crosby, Crane & Sokoloff], **61:** 434
with pentobarbital or nitrous oxide (OA) [Crosby, Crane, Jehle & Sokoloff], **58:** 38
injuries
chronic, cardiovascular complications during anesthesia in (MI) [Schonwald, Fish & Perkash], **55:** 550
laminae of dorsal horn, and spinal action of narcotic analgesics (RA) [Kitahata & Collins], **54:** 153
lesions
response of patients with, to muscle relaxants (RA) [Azar], **61:** 173
metabolism
regional
in, and in brain, comparison of local rates of, in conscious and nitrous oxide- or pentobarbital-treated rats (OA) [Crosby, Crane & Sokoloff], **61:** 434
with pentobarbital or nitrous oxide (OA) [Crosby, Crane, Jehle & Sokoloff], **58:** 38
opiate receptors
in studies of multiple mechanisms of pain inhibition intrinsic to central nervous system (EV) [Liebeskind], **54:** 445
paraplegia
affect of, on neuromuscular function in rat (OA) [Carter, Sokoll & Gergis], **55:** 542
of mother, epidural anesthesia for labor and delivery of twins in (CR) [Watson & Downey], **52:** 259
pressure
during correction of scoliosis, arterial pressure manipulation alters (CR) [Grundy, Nash & Brown], **54:** 249
rexed laminae
neurons of, to graded noxious heat stimulation in cat, effects of halothane on (OA) [Namiki, Collins, Kitahata, Kikuchi, Homma & Thalhammer], **53:** 475
and spinal action of narcotic analgesics (RA) [Kitahata & Collins], **54:** 153
somatosensory, evoked potentials (CO) [Raudzens], **58:** 593
stimulation, with pentobarbital or nitrous oxide (OA) [Crosby, Crane, Jehle & Sokoloff], **58:** 38
subarachnoid space
block of, and epidural block, unilateral analgesia following (CR) [Bozeman & Chandra], **52:** 356
transection
effect of, on neuromuscular blockade function in rat (OA) [Carter, Sokoll & Gergis], **55:** 542
uptake, in epinephrine as adjuvant to epidural morphine (OA) [Bromage, Camporesi, Durant & Nielsen], **58:** 257
WDR neurons
noxiously evoked activity of, spinally administered epinephrine suppresses (OA) [Collins, Kitahata, Matsumoto, Homma & Suzukawa], **60:** 269
suppression of noxiously evoked activity of, by spinally administered morphine (OA) [Homma, Collins, Kitahata, Matsumoto & Kawahara], **58:** 232
wide dynamic range neurons, in spinal cord-transduced cat, effects of halothane on (OA) [Namiki, Collins, Kitahata, Kikuchi, Homma & Thalhammer], **53:** 475
Spinal surgery, *See under* Surgery
Spleen
blood flow
and systemic hemodynamics and oxygen utilization in dog, effects of sodium nitroprusside on (OA) [Fan, Kim, Simchon, Chen, Schuessler & Chien], **53:** 113
Spontaneous ventilation, *See under* Ventilation
Spray, *See under* Equipment
Stadol, *See under* Analgesics, narcotic, butorphanol
Stanski, D. R., Watkins, W. D.
Drug Disposition in Anesthesia (BR), **59:** 171
Stapedial reflex, *See under* Measurement techniques
Starch, hydroxyethyl, *See under* Fluid balance
Starvation, *See under* Metabolism
Statistics
absence of evidence is not evidence of absence (CO) [Hartung, Cottrell & Griffin], **58:** 298
concerning naloxone, error in? (CO) [Jeal], **52:** 281
linear regression
in study of human dose-response curves for neuromuscular blocking drugs (LR) [Donlon, Savarese, Ali & Teplick], **53:** 161
log-probit analysis
in study of human dose-response curves for neuromuscular blocking drugs (LR) [Donlon, Savarese, Ali & Teplick], **53:** 161
medical, trends in (EV) [Longnecker], **57:** 73
methods questioned in succinylcholine tachyphylaxis with isoflurane (CO) [Ben-David & Gross], **59:** 365

methods questioned in succinylcholine tachyphylaxis with isoflurane (CO) [Donati & Bevan], **59:** 366
and misuse of *t* tests (CO) [Schaefer], **60:** 505
protocol
deviation in, in anesthesia studies (EV) [Forrest], **56:** 249
should support rather than strangle anesthesiology literature (CO) [Stanley & Pace], **58:** 297
and small sample sizes (CO) [Lerman], **61:** 219
Status epilepticus, *See under* Complications
Steady state, *See under* carbon dioxide
Stehling, L. C.
Common Problems in Pediatric Anesthesia (BR), **59:** 171
Stellate anesthesia, *See under* Anesthetic techniques, regional
Stellate ganglion, *See under* Anatomy; Anesthesia, diagnostic, therapeutic; Anesthetic techniques, regional; Heart; Sympathetic nervous system, ganglia
Stenosis, idiopathic hypertrophic subaortic, *See under* Heart
Sterilization
equipment
precautions, in management of patient with Creutzfield-Jacob disease (CR) [MacMurdo, Jakymec & Bleyaert], **60:** 590
short-term, of pulmonary artery catheter inserted through external plastic shield (CR) [Johnston, Prough, Royster, Peacock, Gravlee, Mills & Cordell], **61:** 460
skin
precautions, in management of patient with Creutzfield-Jacob disease (CR) [MacMurdo, Jakymec & Blayaert], **60:** 590
Steroids, *See under* Hormones, adrenal
Stethoscope, *See under* Equipment
Stevens A. V. (ed.)
Preparation for Anaesthesia (BR), **58:** 207
Steward, D. J.
Manual of Pediatric Anesthesia (BR), **53:** 272
Stimulants, *See under* Ventilation
Stimulation, nerve, *See under* Nerves
Stimulator, nerve, *See under* Equipment; Monitoring; Nerve; Neuromuscular junction; Neuromuscular transmission
Stoelting, R. K., Dierdorf, S. F.
Anesthesia and Co-existing Disease (BR), **60:** 393
Stomach, *See under* Gastrointestinal tract; Vomiting
Stored blood, *See under* Transfusion
Strauch, M. J.
Pharmacology of Respiratory Therapy Medications (BR), **52:** 288
Streptokinase, intracoronary, *See under* Heart
Stretch receptors, *See under* Receptors
Structure
molecular
of four anesthetic isomers, and minimum alveolar concentrations and oil/gas partition coefficients of (OA) [Koblin, Eger, Johnson, Collins, Harper, Terrell & Speers], **54:** 314
Strychnine, *See under* Analeptics
Studies, *See under* Anesthesia
Subaortic stenosis, *See under* Heart
Subarachnoid space, *See under* Anatomy; Spinal cord
Subdural space, *See under* Brain
Subglottic stenosis, *See under* Airway
Substance P, *See under* Polypeptides
Succinylcholine, *See under* Neuromuscular relaxants
Succinylmonochline, *See under* Neuromuscular relaxants
Suctioning devices, *See under* Equipment
Sufentanil, *See under* Analgesics; Anesthetics, intravenous; Pharmacokinetics
Sulfobromophthalein, *See under* Liver
Sulfur hexafluoride, *See also under* Gases, nonanesthetic
interaction of intraocular air and, with nitrous oxide (LR) [Stinson & Donion], **56:** 385
Supine position, *See under* Position
Support pads, *See under* Equipment
Surgery
abdominal
one-lung anesthesia for, in morbidly obese patients (CR) [Brodsky, Wyner, Ehrenwerth, Merrell & Cohn], **57:** 132
propranolol postoperative maintenance by continuous IV infusion in (CR) [Villers, Pinaud, Bourin, Frison, Souron & Nicolas], **60:** 594
aneurysm
abdominal aortic
immediate hemodynamic and pulmonary changes following (CR) [Mangano], **52:** 173
aortic
use of pulmonary-artery catheter not justified during (CO) [Morley, Cullen & Siverstein], **52:** 96
arthroplasty, total hip, massive occult retroperitoneal hemorrhage during (CR) [Barizgys & Hicks], **58:** 473
cardiac
activated coagulation time method for control of heparin is reliable during (OA) [Cohen], **60:** 121
acute intermittent obstruction of Bjork-Shiley mitral valve (CR) [Damen, Wever, Gherli, Hitchcock & Dion], **61:** 613
in aortic stenosis, cardiovascular effects of metocurine in (CR) [Zaidan & Kaplan], **56:** 395
cardiopulmonary bypass, care of children following (EV) [Betts & Nicholson], **58:** 115
cardiopulmonary bypass, correctable complication of (CR) [McLeskey & Cheney], **56:** 214
cardiopulmonary bypass, hypoxemia following (CR) [Byrick, Kolton, Hart & Forbath], **53:** 172
cardiopulmonary bypass, rectal temperature is best indicator of adequate rewarming during (CO) [Azar], **55:** 189
coronary air embolism during venous cannulation for (CR) [Horrow & Laucks], **56:** 212
in coronary artery disease, hemodynamic responses to preoperative vascular cannulation in patients with (CR) [Waller, Zaidan, Kaplan & Bauman], **56:** 219
coronary artery, amiodarone-induced complications during (CR) [Gallagher, Lieberman, Meranze, Spielman & Ellison], **55:** 189
coronary artery bypass, coronary artery spasms after (CR) [Skarvan, Graedel, Hasse, Stulz & Pfisterer], **61:** 323
coronary artery bypass grafting, cardiovascular effects of vecuronium and pancuronium in patients undergoing (OA) [Morris, Cahalan, Miller, Wilkinson, Quasha, & Robinson], **58:** 438
coronary artery bypass grafting, postoperative respiratory care following, controlled trial of early and late extubation in (OA) [Quasha, Loeber, Feeley, Ullyot & Roizen], **52:** 135
coronary artery, left ventricular end-diastolic pressure (LVEDP) as index for nitrous oxide use during (CR) [Balasaraswwathi, Kumar, Rao & El-Etr], **55:** 708
coronary artery, preoperative stellate-ganglion blockade to prevent hypertension following (CO) [Estafanous, Fouad & Tarazi], **52:** 454
deep body thermometry during general anesthesia (CR) [Muravchick], **58:** 271
emergency, following intracoronary streptokinase (CR) [Goldberg, Colonna-Romano & Babins], **61:** 601
good-risk patients for, cardiorespiratory dynamics during weaning with IMV versus spontaneous ventilation in (CR) [Hastings, Bushnell, Skillman, Weintraub & Hedley-Whyte], **53:** 429

hematocrit and blood volume control during, with use of hemofiltration (CR) [Klineberg, Kam, Johnson, Cartmill & Brown], **60:** 478
hemodynamic changes prior to and after sternotomy in, in patients anesthetized with high-dose fentanyl (CR) [Edde], **55:** 444
high-dose fentanyl-oxygen anesthesia for, intraoperative awareness during (CR) [Hilgenberg], **54:** 341
increased heparin requirement in, with hypereosinophilic syndrome (CR) [Hanowell, Kim, Rattan & MacNamara], **55:** 450
intranasal administration of nitroglycerin for (CR) [Hill, Bowley, Nahrwold, Knight, Kirsch & Denlinger], **54:** 346
intravenous nitroglycerin during fentanyl-pancuronium anesthesia, intraoperative myocardial ischemia and (OA) [Thomson, Mutch & Culligan], **61:** 385
intravenous nitroglycerin, methemglobinemia, and respiratory distress following (CR) [Zurick, Wagner, Starr, Lytle & Estaphanous], **61:** 464
in Kawasaki disease (CR) [McNiece & Krishna], **58:** 269
management of patient with protamine hypersensitivity for (CR) [Campbell, Goldstein & Atkins], **61:** 761
migration of pediatric pulmonary artery catheters following (CR) [Moore, McNicholas, Gallagher & Niguidula], **58:** 102
open-heart, two regimens for management of diabetes during, comparison of (CR) [Elliott, Gill, Home, Noy, Holden & Alberti], **60:** 364
opening of patent foramen ovale, postoperative hypoxemia due to, confirmed by mechanical ventilation (CR) [Lemaire, Richalet, Carlet, Brun-Buisson & MacLean], **57:** 233
sodium nitroprusside following, renal effects of (OA) [Maseda, Hilberman, Derby, Spencer, Stinson & Myers], **54:** 284
unusual cause of hypotension after, idiopathic hypertrophic subaortic stenosis (CR) [Pearson & Reves], **60:** 592

cardiopulmonary bypass
temporary partial, during emergency operative management of near total tracheal occlusion (CR) [Wilson, Steiger, Jacobs & Holsey], **61:** 103

cardiovascular
activated coagulation time method for control of heparin is reliable during (OA) [Cohen], **60:** 121
cardiopulmonary bypass, central venous catheter placement for (CO) [Watson], **53:** 86
cardiopulmonary bypass, complicated by inadvertent carotid cannulation (CR) [Ross, Lake & Wellons], **54:** 85
cardiopulmonary bypass, in man, hypothermia after, nitroprusside in amelioration of (OA) [Norbak & Tinker], **53:** 277
cardiopulmonary bypass, monitoring during (CO) [Granwehr], **55:** 388
coronary artery bypass grafts, ECG changes with Papaverine (CO) [Mahomed, Moorthy, Brown & King], **61:** 350
effects of digoxin on myocardial oxygen supply and demand following (OA) [Sethna, Moffitt, Gray, Bussell, Raymons, Conklin, Shell & Matloff], **56:** 356
in entrapment of mitral valve prosthesis with left atrial catheter (CR) [Porter, Norfleet, Boone, Battaglini & Starek], **60:** 246

extracorporeal circulation
in massive intraoperative pulmonary tumor embolus from renal cell carcinoma during (CR) [Milne, Cervenko, Morales Salerno], **54:** 253
halothane anesthesia for, hemodynamic predictors of myocardial ischemia during (OA) [Lieberman, Orkin, Jobes & Schwartz], **59:** 36
pulmonary thromboendarterectomy, anesthetic management of (CR) [Brown, Bodary & Kirby], **61:** 197

carotid endarterectomy
bypass blood flow during (OA) [Fan, Chen, Chien & Corell], **55:** 305
determination of shunt flow during (CO) [Lindsey], **61:** 215
hemiparesis following: comparison of monitoring methods (CR) [Grundy, Sanderson, Webster, Richey, Procopio & Karanjia], **55:** 462

cesarean section
anesthesia for (RA) [Datta & Alper], **53:** 142

elective
chloroprocaine vs. bupivacaine for lumbar epidural anesthesia for (OA) [James, Dewan, Floyd, Wheeler, Grant, Rhyne & Westmoreland], **52:** 488

colonic
intraoperative explosion during, etiologic factors in (CO) [Freund & Radke], **58:** 196
intraoperative explosion during, etiologic factors in (CO) [Rumley], **58:** 195

complications
and cardiac risk index (CO) [Jeffrey, Kunsman, Cullen & Brewster], **60:** 608
and cardiac risk index (CO) [Pace], **60:** 607
and prospective evaluation of cardiac risk index (CR) [Jeffrey, Kunsman, Cullen & Brewster], **58:** 462
continuous pharyngeal suction during (CO) [Greenberg, Ovnat, Peiser, Charuzi & Gesztes], **60:** 82

coronary artery
fentanyl-oxygen anesthesia for, plasma catecholamine and cortisol responses to (CR) [Stanley, Berman, Green & Robinson], **53:** 250
influence of propranolol plasma levels on hemodynamics during (OA) [Sill, Nugent, Moyer, Torres, Schaff & Tinker], **60:** 455
monitoring pulmonary arterial pressure in (OA) [Mangano], **53:** 364
pulmonary artery catheterization in, questions of benefit-to-hazard ratios with (EV) [Lowenstein & Teplick], **53:** 361

coronary artery bypass
comparison of sufentanil-O_2 and fentanyl-O_2 for (OA) [de Lange, Boscoe, Stanley & Pace], **56:** 112
halothane anesthesia for, hemodynamic predictors of myocardial ischemia during (OA) [Lieberman, Orkin, Jobes & Schwartz], **59:** 36
craniotomy, nitrous oxide and prevention of tension pneumocephalus after (CO) [Friedman], **58:** 196

diaphragmatic hernia
diagnosis of gastrobronchial function during (CR) [Quasha & Pairolero], **52:** 175
dicephalus dipus conjoined twins, surgical field flash fire during separation of (CR) [Ashcraft, Golladay & Guinee], **55:** 457
emergency comparative evaluation of intravenous agents for rapid sequence induction in (OA) [White], **57:** 279

endarterectomy
carotid, failure of nasal plethysmography to estimate cerebral blood flow during (CR) [Cucchiara & Messick], **55:** 585

eye
retinal, in prone position; inexpensive simple headrest (CO) [Wollman & Neuman], **61:** 109

gynecologic, hysterectomy
air embolism during (CR) [Naulty, Meisel, Datta & Ostheimer], **57:** 420
grand mal seizure after fentanyl administration for (CO) [Safwat & Daniel], **59:** 78
head, airway device for (CO) [Bedger, Chang, Larson & Bleyaert], **58:** 199

hemodynamic response
during coronary artery bypass surgery, influence of propranolol plasma levels on (OA) [Sill, Nugent, Moyer, Torres, Schaff & Tinker], **60:** 455
insulinoma
glucose management in patients undergoing (OA) [Muir, Endres, Offord, van Heerden & Tinker], **59:** 371
knee replacement without tourniquet, hemodynamic effects of prosthesis insertion during (CR) [Samii, Elmelik, Goutalier & Viars], **52:** 271
laparoscopy
carbon dioxide embolism during (CR) [Yacoub, Cardona, Coveler & Dodson], **57:** 533
hemorrhage and cardiac arrest during (CR) [Chapin, Hurlbert & Scheer], **53:** 342
retinal hemorrhage following anesthesia for (CR) [Bolder & Norton], **61:** 595
laryngeal
beware of sharp edges of endotracheal tubes during (CO) [Skaredoff & Poppers], **58:** 595
beware of sharp edges of endotracheal tubes during (CO) [Weibel & Mathews], **58:** 595
carbon dioxide laser microsurgery, risk of endotracheal intubation for (CO) [Palas], **55:** 714
complication of use of microlaryngeal surgery endotracheal tube in (CO) [Torres & Reynolds], **53:** 355
high-frequency jet ventilation for (CR) [Babinski, Smith & Klain], **52:** 178
laser, protection of endotracheal tubes during (CO) [Ngeow & Kashima], **55:** 710
laryngoscopy
laser, anesthetic management and gas scavenging for, in infant subglottic stenosis (CR) [Rita, Seleny & Holinger], **58:** 191
laser, endotracheal tube fire induced by (CR) [Cozine, Rosenbaum, Askanazi & Rosenbaum], **55:** 583
laser in, pneumothorax with (CR) [Ganfield & Chapin], **56:** 398
for major airway obstructing tumors, neodymium-YAG laser in, anesthesia for (CR) [Warner, Warner & Leonard], **60:** 230
laryngotracheal
anesthetic management during Nd-YAG laser resection (CO) [Vourc'h, Fischler, Personne, Colchen & Toty], **61:** 636
anesthetic management during Nd-YAG laser resection in (CO) [Warner, Warner & Leonard], **61:** 637
ignition of endotracheal tube during (CO) [Hirshman & Leon], **53:** 177
laser
ignition of endotracheal tube during (CO) [Hirshman & Leon], **53:** 177
laryngeal, protection of endotracheal tubed during (CO) [Ngeow & Kashima], **55:** 710
neodymium-YAG
for resection of major airway obstructing tumors, anesthesia for (CR) [Warner, Warner & Leonard], **60:** 230
upper airway, pneumothorax with (CR) [Ganfield & Chapin], **56:** 398
laser microsurgery
prevention of fire hazard during (CO) [Kumar & Frost], **54:** 350
lung
assessment of unilateral lung function during (MI) [Baier], **52:** 240
maxillofacial
armored endotracheal tube in (CR) [Beckers], **56:** 309
pediatric
difficult endotracheal intubation in: new approach to retrograde technique (CR) [Borland, Swan & Leff], **55:** 577
microlaryngeal
experiences with new endotracheal tube for (CR) [Torres & Reynolds], **52:** 357
microsurgery
laryngeal, endotracheal tube is not necessary for (CO) [Talmage], **55:** 332
laser
endotracheal tubes for, further modification of (CO) [Kalhan & Regan], **53:** 81
midtrimester abortions disseminated intravascular coagulation following (CR) [White, Coe, Dworsky & Margolis], **58:** 99
neck, airway device for (CO) [Bedger, Chang, Larson & Bleyaert], **58:** 199
neurologic
development of pneumocephalus during, nitrous oxide as a factor in (CR) [Artru], **57:** 59
high-frequency positive-pressure ventilation during, effects of, on intracranial pressure and brain surface movement in cats (OA) [Todd, Toutant & Shapiro], **54:** 496
intracranial hypertension during, following cross-clamping of thoracic aorta (CR) [Hantler & Knight], **56:** 146
monitoring of somatosensory-evoked potentials in prediction of loss of spinal cord function (CR) [Grundy, Nelson, Doyle & Procopio], **57:** 321
tension pneumocephalus following, cardiac arrest associated with (CR) [Thiagarajah, Frost, Singh & Shulman], **56:** 73
neurosurgery
airway-obstructing supraglottic edema following anesthesia for, with head positioned in forced flexion (CR) [Bennett, Lee & Wright], **54:** 78
complications of Mayfield skull clamp in (CR) [Baerts, de Lange, Booij & Broere], **61:** 462
of posterior cranial fossa, airway obstruction following (CR) [Gorski, Rao & Scarff], **54:** 80
spinal decompression in achondroplastic dwarf, migrating disc complicating (CR) [McPherson, North, Udvarhelyi & Rosenbaum], **61:** 764
in suprasellar tumor in juvenile airway in adult (CR) [Veselis & Korbon], **58:** 481
noncardiac
with intravenous nitroglycerin, prevention of intraoperative myocardial ischemia during (CR) [Coriat, Daloz, Bousseau, Fusciardi, Echter & Viars], **61:** 193
obstetric, for midtrimester abortions, disseminated intravascular coagulation following (CR) [White, Coe, Dworsky & Margolis], **58:** 99
ophthalmology
airway device for (CO) [Bedger, Chang, Larson & Bleyaert], **58:** 199
interaction of intraocular and sulfur hexafluoride with nitrous oxide in (LR) [Stinson & Donion], **56:** 385
orthopedic
and airway emergency in patient during CO_2 arthroscopy (CO) [Shupak, Shuster & Funch], **60:** 171
bone cement, methylmethacrylate, airway obstruction (CR) [Cromwell], **52:** 89
effects of propranolol on cardiovascular and renin-angiotensin systems during hypotension produced by sodium nitroprusside in humans for (OA) [Marshall, Bedford, Arnold, Miller, Longnecker, Sussman & Hakala], **55:** 277
fatal pulmonary embolism following (CR) [Pollard, Lovelock & Jones], **58:** 373
for flexion deformity of cervical spine, anesthetic management for (CR) [Ovassapian, Land, Schaefer, Cerullo & Zalkind], **58:** 370

hip arthroplasty
caudal anesthesia in patient with ankylosing spondylitis for (CR) [DeBoard, Ghia & Guilford], **54:** 164
massive occult retroperitoneal hemorrhage during (CR) [Brizgys & Hicks], **58:** 473
methyl methacrylate, second-degree atrioventricular block after (CR) [Brown & Parmley], **56:** 391
new device in, increases hazards of methylmethacrylate bone cement in (CO) [Westerlund], **54:** 90
pain following, effective use of epidural morphine sulfate for (CR) [Ebert & Varner], **53:** 257
pulmonary embolism during, angiographic diagnosis of (CR) [Berry], **57:** 0
in scoliosis, arterial pressure manipulation alters spinal cord function during (CR) [Grundy, Nash & Brown], **54:** 249
total hip arthroplasty, methyl methacrylate in, second-degree atrioventricular block after (CR) [Brown & Parmley], **56:** 391
outpatient
continuous infusion fentanyl or ketamine *versus* thiopental for, comparative study (CR) [White, Dworsky, Horai & Trevor], **59:** 574
use of continuous infusion versus intermittent bolus administration of fentanyl or ketamine during (OA) [White], **59:** 294
in pacemaker patient (RA) [Zaiden], **60:** 319
pediatric
bronchoscopy
tension pneumothorax during (CR) [Gallagher & Muller], **55:** 681
central venous access in children in, via external jugular vein (CR) [Humphrey & Blitt], **57:** 50
congenital diaphragmatic hernia, and alveolar-arterial oxygen tension difference in (CR) [Harrington, Raphaely & Downes], **56:** 473
pharmacokinetics of sufentanil during (OA) [Bovill, Sebel, Blackburn, Oei-Lim & Heykants], **61:** 502
pheochromocytoma
bilateral adrenalectomy for, hypertension after intraoperative autotransfusion in (CR) [Smith, Mihm & Mefford], **58:** 182
ORG NC45 (Norcutron®) and (CR) [Gencarelli, Roizen, Miller, Joyce, Hunt & Tyrell], **55:** 690
presurgical stress and plasma endorphin levels (CO) [Miralles, Olaso, Fuentes, Lopes, Laorden & Puig], **59:** 366
radical neck dissection
prolongation of Q-T interval and sudden cardiac arrest following (CR) [Otteni, Pottecher, Bonner, Flesch & Diebolt], **59:** 358
risk factors
and cardiac risk index (CO) [Jeffrey, Kunsman, Cullen & Brewster], **60:** 608
and cardiac risk index (CO) [Pace], **60:** 607
and prospective evaluation of cardiac risk index (CR) [Jeffrey, Kunsman, Cullen & Brewster], **58:** 462
spinal, somatosensory-evoked potential loss during (CO) [Raudzens], **58:** 593
thoracic
one-lung anesthesia for, in morbidly obese patients (CR) [Brodsky, Wyner, Ehrenwerth, Merrell, Cohn], **57:** 132
in pulmonary lobar torsion, anesthesia for (CR) [Moore, Forsythe, Faustino, Niguidula, McNicholas & Clark], **57:** 129
thoracotomy
management of pain after: technique of multiple intercostal nerve blocks (CO) [Restelli, Movilia, Bossi & Caironi], **61:** 353
thorascopy
for retrieval of intrathoracic foreign bodies (CO) [Brodsky,], **54:** 91
thymectomy
in myasthenia gravis, prediction of need for postoperative mechanical ventilation in (OA) [Leventhal, Orkin & Hirsh], **53:** 26
tracheostomy
endotracheal balloon cuff dilatation of tracheostomal stenosis in (CR) [Lebowitz, Geller & Andeweg], **57:** 323
in epiglottis in adult (CR) [Bishop], **55:** 697
transcutaneous cranial electrical stimulation during (CO) [Nicosia & Lombardi], **59:** 264
tumor resection
cerebellar infarction due to embolization during tumor resection (CO) [Lyden & Kinyon], **60:** 619
ultrasonic nephrostolithotomy
percutaneous, sudden cardiac arrest during (CR) [Bennett, Smith & Fuchs], **60:** 245
urologic
ammonia toxicity from glycine absorption during (CR) [Roesch, Stoelting, Lingeman, Kahnoski, Backes & Gephardt], **58:** 577
chest pain of esophageal origin during spinal anesthesia for, and in amputation of extremity (CR) [Moon], **53:** 510
paralysis of phrenic and recurrent laryngeal nerves following (CR) [Baraka, Hemady, Yamut, Yazigi & Canalis], **55:** 78
transurethral prostatic resection reaction syndrome, visual disturbances in (CR) [Ovassapian, Joshi & Brunner], **57:** 332
transurethral resection of prostate, hyperlactatemia during, using sorbitol solution as urologic irrigant (CO) [Johans, Rofkar, Townsend & Eggers], **52:** 374
visual disturbances during, glycine and blood-brain barrier and (CO) [Larson], **58:** 488
vascular
aorta
infrarenal aortic cross-clamp in, intranasal nitroglycerin during (CO) [Moon, Kim & Cookinham], **55:** 191
coarctectomy, refractory hypertension during (CR) [Wilkinson & Clark], **57:** 540
and isolated hyperthermic limb perfusion, anesthesia for (CR) [Cruchley, Kaplan, Waller, Young], **57:** 228
therapeutic arterial embolization during, acute pulmonary embolism in (CR) [Capan, Lardizabal, Sinha, Ashok, Berenstein & Turndorf], **58:** 569
Suxamethonium, *See under* Neuromuscular relaxants
Swan-Ganz catheters, *See under* Equipment
Sykes, W. S., Ellis, R. H. (eds.)
Essays on the First Hundred Years of Anaesthesia, Vol. III (BR), **59:** 172
Sympathectomy, *See under* Sympathetic nervous system
Sympathetic agents, *See under* Sympathetic nervous system
Sympathetic block, *See under* Anesthetic techniques, regional
Sympathetic nervous agents
sympathomimetic agents
ephedrine, and dopamine for treatment of spinal hypotension during cesarean section (CR) [Clark & Brunner], **53:** 514
Sympathetic nervous system
acute sympathectomy, circulatory responses to airway stimulation and cervical epidural blockade in (OA) [Dohi, Nishikawa, Ujike & Mayumi], **57:** 359
adrenal medulla
of dog, differential effects of halothane on nicotinic- and muscarinic-receptor mediated responses of (OA) [Sumikawa, Matsumoto, Ishizaka, Nagai, Amenomori & Amakata], **57:** 444
selective actions of intravenous anesthetics on nicotinic and muscarinic-receptor mediated responses of, in dog (OA) [Su-

mikawa, Matsumoto, Amenomori, Hirano, & Amakata], **59:** 412

adrenergic nerve endings
halothane induced changes in release and disposition of norepinephrine at, in dog saphenous vein (OA) [Lunn & Rorie], **61:** 377

adrenergic transmission
in canine, during acute sympathectomy by epidural anesthesia (OA) [Klassen, Bramwell, Bromage & Zborowska-Sluis], **52:** 8
droperidol as selective antagonist of, in canine saphenous vein (OA) [Hyatt, Muldoon & Rorie], **53:** 281
influences on coronary perfusion and evolving concepts of driving pressure, resistance, and transmural flow regulation (EV) [Klocke, Ellis & Orlick], **52:** 1
airway reactivity and (MI) [Hirshman], **58:** 170

alpha receptor
thiopental potentiation of isolated rabbit pulmonary artery contractions with (OA) [Fukuda, Inomata, Tsuji & Takeshita], **60:** 187

alpha-adrenergic receptors
droperidol as selective antagonist of, in canine saphenous vein (OA) [Hyatt, Muldoon & Rorie], **53:** 281

aminophylline
for child with asthma and presumed susceptibility to malignant hyperthermia (CR) [Vaughn, Casson & Hirshman], **58:** 283
-ketamine-induced decrease in seizure threshold (CR) [Hirshman, Krieger, Littlejohn, Lee & Julien], **56:** 464

anesthesia
coronary artery occlusion and (EV) [Tinker], **54:** 449
with cyclopropane, effects of, on catecholamine release from bovine adrenal medulla (LR) [Sumikawa, Amakata, Kashimoto & Izumi], **53:** 49
epidural, acute sympathectomy by, effect on canine coronary circulation (OA) [Klassen, Bramwell, Bromage & Zborowska-Sluis], **52:** 8
in study of myocardial functional and metabolic effects of isoflurane as compared to those of halothane and enflurane (OA) [Merin], **55:** 398

beta-adrenergic blockade
and hemodynamics during coronary artery bypass surgery (OA) [Sill, Nugent, Moyer, Torres, Schaff & Tinker], **60:** 455

beta-adrenergic blockers
in postoperative management by continuous IV infusion (CR) [Villers, Pinaud, Bourin, Frison, Souron & Nicolas], **60:** 594
timolol
and postoperative apnea in neonates and young infants (CO) [Bailey], **61:** 622

beta-adrenergic receptors
blockade, following use of eye drops (CR) [Samuels & Maze], **52:** 369
and pancuronium (CO) [Pinaud & Souron], **60:** 512

blockade
in diffuse reflex sympathetic dystrophy (CR) [Bentley & Hameroff], **53:** 256
calcium channel blockers, to relieve pulmonary congestion in mitral valve disease (CR) [Kopman], **58:** 374

catecholamines
assessment of, in study of captopril and nitroprusside to induce hypotension (OA) [Woodside, Garner, Bedford, Sussman, Miller, Longnecker & Epstein], **60:** 413
changes in, induced by pentolinium and propranolol during surgical correction of scoliosis (OA) [Knight, Lane, Nicholls, Tait, Nahrwold, Hensinger & Cohen], **53:** 127

concentrations
hemodynamics, and plasma histamine, during anaphylactoid reaction to morphine (CR) [Fahmy], **55:** 329

dopamine
diuretic properties of, in patients after open-heart operation (OA) [Hilberman, Maseda, Stinson, Derby, Spencer, Miller, Oyer & Myers], **61:** 489
renal effects of (EV) [Miller], **61:** 487
response to etomidate in surgical stress (OA) [Fragen, Shanks, Molteni & Avram], **61:** 652

epinephrine
antiarrhythmogenic levels of, during halothane, enflurane, and pentobarbital anesthesia in dog (OA) [Sumikawa, Ishizaka & Suzaki], **58:** 322
arrhythmias induced by, and cardiovascular function after verapamil during halothane anesthesia in dog (OA) [Kapur & Flacke], **55:** 218
arrhythmias induced by, during halothane anesthesia in dogs, lidocaine, bupivacaine, and etidocaine in (OA) [Chapin, Kushins, Munson & Schick], **52:** 23
arrhythmias induced, potentiation by thiopental of halothane (OA) [Atlee & Malkinson], **57:** 285
changes in plasma potassium induced by continuous intravascular monitoring of (OA) [Lim, Linton & Band], **57:** 272
during halothane anesthesia for closure of cleft palate (CR) [Ueda, Hirakawa & Mae], **58:** 574
-halothane interactions in children (OA) [Karl, Swedlow, Lee & Downes], **58:** 142
-halothane interaction in children versus adults (CO) [Karl], **60:** 77
-halothane interaction in children versus adults (CO) [Pepple], **60:** 76
-induced arrhythmias during halothane induced anesthesia, identification of receptor mechanism mediating (OA), **59:** 322
influence of, as adjuvant to epidural morphine (OA) [Bromage, Camporesi, Durant & Nielsen], **58:** 257
does not alter human intervillous blood flow during epidural anesthesia (OA) [Albright, Jouppila, Hollmén, Jouppila, Vierola & Koivula], **54:** 131
measurement of, in assessment of effect of spinal surgical stress in humans (OA) [Pflug & Halter], **55:** 120
pancuronium, and *d*-tubocurarine-introduced arrhythmias during halothane anesthesia (OA) [Schick, Chapin, Munson & Kushins], **52:** 0
plasma-sulfate-conjugated, during anesthesia (CO) [Marty, Couture & DeChamplain], **59:** 162
response during hypotensive anesthesia induced by sodium nitroprusside or trimethaphan camsylate (CR) [Knight, Lane, Hensinger, Bolles & Bjoraker], **59:** 248
response to etomidate in surgical stress (OA) [Fragen, Shanks, Molteni & Avram], **61:** 652
in study of components of effective test dose prior to epidural block (CR) [Moore & Batra], **55:** 689

norepinephrine
antiarrhythmogenic plasma levels of, during halothane, enflurane, and pentobarbital anesthesia in dog (OA) [Sumikawa, Ishizaka, & Suzaki], **58:** 322
applied, and transmural electrical stimulation, modification by lidocaine and its N-dealkylated metabolites of response of isolated rabbit aorta to (OA) [Fukuta, Takeshita & Toda], **53:** 106
assessment of, during treatment of stress-induced increases in pulmonary capillary wedge using volatile anesthetics (CR) [Roizen, Hamilton & Sohn], **55:** 446

droperidol-induced release of, from intraneuronal storage vesicles (OA) [Hyatt, Muldoon & Rorie], **53:** 281
halothane-induced changes in release and disposition of, at adrenergic nerve endings in dog saphenous vein (OA) [Lunn & Rorie], **61:** 377
-induced contractile response of rabbit isolated aorta, acid-base interactions with (OA) [Stokke, Andersen, Brinklov, Nedergaard, Hole & Rasmussen], **60:** 400
measurement of, in assessment of effect of spinal anesthesia on adrenergic tone and neuroendocrine responses to surgical stress in humans (OA) [Pflug & Halter], **55:** 120
plasma concentrations of, halothane induction increases (OA) [Joyce, Roizen, Gerson, Grobecker, Eger & Forbes], **56:** 286
plasma levels of, compared, in controlled trial of early and late extubation following coronary-artery bypass grafting (OA) [Quasha, Loeber, Feeley, Ullyot & Roizen], **52:** 135
plasma, responses in, to induction of anesthesia and incision [MAC BAR], (OA) [Roizen, Horrigan & Frazer], **54:** 390
plasma-sulfate-conjugated, during anesthesia (CO) [Marty, Couture & DeChamplain], **59:** 162
and renovascular hypertension: effect of halothane and enflurane (OA) [Woodside, Beckman, Althaus, Peach, Longnecker & Miller], **60:** 440
response during hypotensive anesthesia induced by sodium nitroprusside or trimethaphan camsylate (CR) [Knight, Lane, Hensinger, Bolles & Bjoraker], **59:** 248
response to etomidate in surgical patients (OA) [Wagner & White], **61:** 647
response to etomidate in surgical stress (OA) [Fragen, Shanks, Molteni & Avram], **61:** 652
selective actions of intravenous anesthetics on nicotinic- and muscarinic-receptor-mediated responses of, in dog (OA) [Sumikawa, Matsumoto, Amenomori, Hirano & Amakata], **59:** 412
thiopental effects on activity of (OA) [Joyce, Roizen & Eger], **59:** 19
thiopental potentiation of isolated rabbit pulmonary artery contractions with (OA) [Fukuda, Inomata, Tsuji & Takeshita], **60:** 187

plasma
and cortisol responses to fentanyl-oxygen anesthesia for coronary-artery operations (CR) [Stanley, Berman, Green & Robinson], **53:** 250
release of, and cerebral oxygen utilization and blood flow during hemorrhagic and pharmacologic hypotension (OA) [Grubb & Raichle], **56:** 3
release of, from bovine adrenal medulla. effects of cyclopropane on (LR) [Sumikawa, Amakata, Kashimoto & Izumi], **53:** 49
release of, mechanism of differential effects of halothane on (OA) [Sumikawa, Matsumoto, Ishizaka, Nagai, Amenomori & Amakata, **57:** 444
renin, and vasopression during nitroprusside-induced hypotension in ewes (OA) [Zubrow, Daniel, Stark, Husain & James], **58:** 245
with therapeutic dose of bupivacaine in obstetrics (CO) [Albright], **61:** 217
with therapeutic dose of bupivacaine in obstetrics (CO) [Marx], **61:** 218
uptake and release in isolated chromaffin granules exposed to halothane (OA) [Sumikawa, Amakata, Yoshikawa, Kashimoto & Izumi], **53:** 385

causalgia
of vascular etiology following abdominal injury (CR) [Szeinfeld, Saucedo & Pallares], **57:** 46

chromaffin granules
isolated
exposed to halothane, catecholamine uptake and release in (OA) [Sumikawa, Amakata, Yoshikawa, Kashimoto & Izumi], **53:** 385

dopamine
d-tubocurarine as antagonist of, in rabbit ear artery (OA) [Nelson & Steinsland], **59:** 98
infusion
increase of shunting caused by, positive end-expiratory pressure (PEEP) ventilation suppresses (CO) [Lemaire, Regnier, Simoneau & Harf], **52:** 376
plasma
and cortisol responses to fentanyl-oxygen anesthesia for coronary-artery operations (CR) [Stanley, Berman, Green & Robinson], **53:** 250
for treatment of spinal hypotension during cesarean section (CR) [Clark & Brunner], **53:** 514

dystrophy
Horner's syndrome
in Pourfour Du Petit syndrome-hypersympathetic dysfunctional state following direct non-penetrating injury to cervical sympathetic chain and brachial plexus (CR) [Teeple, Ferrer, Ghia & Pallares], **55:** 591
reflex
ulnar artery occlusion simulating (CR) [Spielman, Ghia, Teeple & Mandell], **54:** 343
reflex sympathetic
diffuse (CR) [Bentley & Hameroff], **53:** 256

ganglia
blockade of
in *d*-tubocurarine-induced hypotension in humans, role of histamine in (OA) [Moss, Rosow, Savarese, Philbin & Kniffen], **55:** 19

ganglionic blocking agents
in canine model of acute coronary artery stenosis: effects of deliberate hypotension (OA) [Hickey, Verrier, Baer, Vlahakes, Fein & Hoffman], **59:** 226
hexamethonium, sympathetic ganglionic blockade in anesthetized cat produced by, 4-aminopyride reversal of (OA) [Durant, Lee & Katz], **52:** 381
and mechanism of tracheal constriction by succinylcholine (OA) [Koga, Downes, Leon & Hirshman], **55:** 138
pentolinium, and propranolol, hormonal and hemodynamic changes induced by, during surgical correction of scoliosis (OA) [Knight, Lane, Nicholls, Tait, Nahrwold, Hensinger & Cohen], **53:** 127
trimethaphan
catecholamine and resin-angiotensin response during (CR) [Knight, Lane, Hensinger, Bolles & Bjoraker], **59:** 248
hypotension induced by, in dog, blood-brain barrier function following (OA) [Ishikawa, Funatsu, Okamoto, Takeshita & McDowall], **59:** 526
hypotension induced by, in goat, intracerebral blood flow distribution during (OA) [Miletich, Gil, Albrecht & Zahed], **53:** 210

ganglionic transmission
effects of halothane on (OA) [Bosnjak, Seagard, Wu & Kampine], **57:** 0
guanethidine, and renin, and blood pressure control during (OA) [Miller, Beckman, Woodside, Althaus & Peach], **58:** 32

Horner's syndrome
position-induced (CO) [McLeskey & Jaffe], **57:** 139
position-induced (CO) [Vandam], **57:** 139
position-induced (CR) [Jaffe & McLeskey], **56:** 49

peripheral, and renin, and blood pressure control during (OA) [Miller, Beckman, Woodside, Althaus & Peach], **58:** 32
phenylephrine
subarachnoid, effects of, on spinal cord and cerebral blood flow in dogs (OA) [Dohi, Matsumiya, Takeshima & Naito], **61:** 238
pheochromocytoma
ORG NC45 (Norcuron®) and (CR) [Gencarelli, Roizen, Miller, Joyce, Hunt & Tyrell], **55:** 690
propranolol
influence of, on hemodynamics during coronary artery bypass surgery (OA) [Sill, Nugent, Moyer, Torres, Schaff & Tinker], **60:** 455
in postoperative management by continuous IV infusion (CR) [Villers, Pinaud, Bourrin, Frison, Souron & Nicolas], **60:** 594
receptors
function of, clinical implications of, in anesthesia (MI) [Mase], **55:** 160
reflexes
activity in conscious and isoflurane anesthetized dogs (OA) [Seagard, Hoop, Bosnjack, Osborne & Kampine], **61:** 266
carotid sinus, halothane and (OA) [Seagard, Hopp, Donegan, Kalbfleisch & Kampine], **57:** 191
effects of isoflurane on (OA) [Seagard, Elegbe, Hop, Bosnjak, von Colditz, Kalbfleisch & Kampine], **59:** 511
elicited by acute coronary artery occlusion, effect of halothane on, in dog (OA) [Bachhuber, Seagard, Bosnjak & Kampine], **54:** 481
stellate ganglion
block, using physiologic saline solution (CR) [Benzon, Linde, Hawes & Brunner], **52:** 511
stress response
pulmonary capillary wedge pressure, treatment of, using volatile anesthetics (CR) [Roizen, Hamilton & Sohn], **55:** 446
in study of myocardial function and metabolic effects of isoflurane as compared to those of halothane and enflurane (OA) [Merin], **55:** 398
sympathectomy
lidocaine and phenylephrine in, effects of, on spinal cord and cerebral blood flow in dogs (OA) [Dohi, Matsumiya, Takeshima & Naito], **61:** 238
sympathetic agents
alpha methyldopa
in clonidine withdrawal complicated by amitriptyline therapy (CR) [Stiff & Harris], **59:** 73
clonidine
withdrawal complicated by amitriptyline therapy (CR) [Stiff & Harris], **59:** 71
tricyclic antidepressants
in clonidine withdrawal complicated by amitriptyline therapy (CR) [Stiff & Harris], **59:** 73
sympatholytic
amiodarone, -induced complications during coronary artery surgery (CR) [Gallagher, Lieberman, Meranze, Spielman & Ellison], **55:** 186
clonidine
withdrawal, propranolol, and rebound hypertension (CO) [Bruce], **53:** 179
withdrawal, propranolol, and rebound hypertension (CO) [Kushins], **53:** 178
improve anesthetic management in obstetrics (CO) [Downing, Brock-Utne & Mankowitz], **55:** 334
nitroglycerin, hypoxemia induced by, deep breathing and (CR) [Kopman], **55:** 74
propranolol
clonidine withdrawal and rebound hypertension (CO) [Bruce], **53:** 179
clonidine withdrawal, and rebound hypertension (CO) [Kushins], **53:** 178
effects of, on cardiovascular and renin-angiotensin systems during hypotension produced by sodium nitroprusside in humans (OA) [Marshall, Bedford, Arnold, Miller, Longnecker, Sussman & Hakala], **55:** 277
hemodynamic effects of pancuronium and pancuronium plus metocurine in patients taking (CR) [McDonald & Zaidan], **60:** 359
and nitroprusside, combined effects of, on hypoxic pulmonary vasoconstriction (OA) [Miller, Benumof & Trousdale], **57:** 267
and pentolinium, hormonal and hemodynamic changes induced by, during surgical correction of scoliosis (OA) [Knight, Lane, Nicholls, Tait, Nahrwold, Hensinger & Cohen], **53:** 127
pretreatment, in prophylaxis against ventricular arrhythmias (CR) [Hood & Mecca], **58:** 379
prior to ECT associated with asystole (CO) [Wultson, Askanazi & Finck], **60:** 255
in refractory hypertension during coarctectomy (CR) [Wilkinson & Clark], **57:** 540
in study of serum potassium following succinylcholine in dogs with beta blockade (OA) [McCammon & Stoelting], **61:** 723
sympathomimetic agents, aphedrine, method of administration of, and nausea and hypotension during spinal anesthesia for cesarean section (CR) [Datta, Alper, Ostheimer & Weiss], **56:** 68
verapamil, intravenous, to relieve pulmonary congestion in mitral valve disease (CR) [Kopman], **58:** 374
Sympathomimetic agents, *See under* Sympathetic nervous system
Synapses, *See under* Anatomy; Brain; Neuromuscular junction
Synaptosomes, *See under* Brain; Nerve
Synthane, *See under* Anesthetics, volatile
Syringes, *See under* Equipment
Systemic vascular resistance, *See under* Hemodynamics
Systolic mechanics
left ventricular
in dogs, effect of altered resistive load on (OA) [Prewitt & Wood], **56:** 195
Systolic murmur, *See under* Heart
Systolic time intervals, *See under* Heart

T

Tachycardia, *See under* Heart, arrhythmia
Tachyphylaxis, *See under* Immune response; Neuromuscular transmission
Tachypnea, *See under* Ventilation
Tactile posttetanic count, *See under* Monitoring
Tail-clamp, *See under* Potency, anesthetic
Tamponade, *See under* Complications; Heart
Temperature
body
adequate rewarming of, during cardiopulmonary bypass, rectal temperature is best indicator of (CO) [Azar], **55:** 189
any, management of acid-base balance at (EV) [Williams & Marshall], **56:** 1
during awakening from anesthesia (OA) [Rosenberg, Clofine & Bialik], **54:** 125
after cardiopulmonary bypass in man, amelioration by nitro-

prusside-induced vasodilation (OA) [Noback & Tinker], **53:** 277
after cardiopulmonary bypass in man (CO) [Caldwell, Crawford & Sinclair], **55:** 89
hypothermia in pregnancy (CR) [Stange & Halldin], **58:** 460
and intraoperative heat conservation using reflective blanket (CR) [Bourke, Wurm, Rosenberg & Russell], **60:** 151
correction
of P_{CO_2} and *p*H in estimating acid-base status (MI) [Ream, Reitz & Silverberg], **56:** 41
density
heating
in isolated limb perfusion, anesthesia for (CR) [Cruchley, Kaplan, Waller & Young], **57:** 228
of liquid halothane, methoxyflurane, and enflurane, between 0° and 35°C (LR) [Korman & Ritchie], **57:** 42
effect
on arterial blood-gas abnormalities, in correction of parameters, methodology compared (MI) [Andritsch, Muravchick & Gold], **55:** 311
hyperthermia
in genetic susceptibility to anesthesia (RA) [Gronert], **53:** 395
malignant, protocols for managing effective way to disseminate (CO) [Watson & Forfleet], **60:** 510
malignant, sevoflurane triggers, in swine (CO) [Shulman, Braverman, Ivankovich & Gronert], **54:** 259
hypothermia
arterial blood-gas values in, temperature correction of (CO) [Sivarajan], **56:** 329
after cardiopulmonary bypass in man (CO) [Crawford], **56:** 234
after cardiopulmonary bypass in man (CO) [Karis], **56:** 233
and electroencephalogram (CO) [Levy], **58:** 396
and electroencephalogram (CO) [Sharbrough, Quasha & Tinker], **58:** 396
pancuronium retains potency at (OA) [Horrow & Bartkowski], **58:** 357
monitoring
during anesthesia for isolated hyperthermic limb perfusion (CR) [Cruchley, Kaplan, Waller & Young], **57:** 228
faulty temperature probe in (CO) [Chapin & Moravec], **52:** 187
Temperature blankets, *See under* Complications; Equipment
Temperature probes, *See under* Equipment
Tension, *See under* Carbon dioxide; Cerebrospinal fluid; Eye; Oxygen; Temperature
Tension, end-tidal, *See under* Carbon dioxide
Tension pneumocephalus, *See under* Brain; Complications
Teratogenicity, *See under* Pharmacology; Pregnancy; Toxicity
Terbutaline, *See under* Sympathetic nervous system, sympathomimetic agents
Testis
sperm morphology
nitrous oxide inactivates methionine synthetase activity in, in rats (OA) [Brodsky, Baden, Serra & Kundomal], **61:** 66
spermatogenesis
nitrous oxide inactivates methionine synthetase activity in, in rats (OA) [Brodsky, Baden, Serra & Kundomal], **61:** 66
Tetracaine, *See under* Anesthetics, local
Tetraethylammonium derivatives, *See under* Anesthetics, local
Tetrodotoxin, *See under* Pharmacology
Textbooks, *See under* Education
Theories of anesthesia
and age-dependent alterations in nitrous oxide requirement of mice (OA) [Koblin, Lurz & Eger], **58:** 428
anesthesia does not increase opioid peptides in cerebrospinal fluid in humans (OA) [Way, Hosobuchi, Johnson, Eger & Bloom], **60:** 43
GABA
disposal, synaptosomal, effects of anesthetic agents on (OA) [Cheng & Brunner], **55:** 34
metabolism, inhibition of, in rat brain synaptosomes by midazolam (RD-21-3981) (OA) [Cheng & Brunner], **55:** 41
with halothane, inhibition of GABA metabolism in rat brain slices in (OA) [Cheng & Brunner], **55:** 26
lipid solubility
and anesthetic potency, of general anesthetics in quaking mouse (OA) [Koblin], **54:** 17
of inhaled anesthetics and alcohol in mice selectively bred for resistance and susceptibility to nitrous oxide anesthesia (OA) [Koblin, Deady & Eger], **56:** 18
and minimum alveolar concentrations, of four anesthetic isomers (OA) [Koblin, Eger, Johnson, Collins, Harper, Terrell & Speers], **54:** 314
selective breeding altering nurine resistance to nitrous oxide without alteration in (OA) [Koblin, Dong, Deady & Eger], **52:** 401
membrane effects, erythrocyte expansion due to volatile anesthetics, n-alkanols, and benzyl alcohol (OA) [Bull, Brailsford & Bull], **57:** 399
*p*H gradients
collapsing of, anesthetics may act by (OA) [Bangham & Mason], **53:** 135
pressure reversal
cause of, investigation of, hydrostatic pressure and halothane effects on single neurons of *Aplysia californica* in (OA) [Parmentier & Bennett], **53:** 9
effect of, on aerobic metabolism of monkey kidney cells (OA) [Brabec, Bedows, Davidson & Knight], **61:** 43
of halothane's antiviral effect (OA) [Bedows & Knight], **59:** 109
relevancy of, to anesthesia (MI) [Matubayasi & Ueda], **59:** 551
volatile anesthetic effects on light-induced proton uptake of rhodopsin in bovine rod outer segment disk membrane (OA) [Mashimo, Tashiro & Yoshiya], **61:** 439
volume expansion
relevancy of, to anesthesia (MI) [Matubayasi & Ueda], **59:** 551
Therapeutic anesthesia, *See under* Anesthesia; Anesthetic techniques
Therapeutic arterial embolization, *See under* Embolism
Thermodilution, *See under* Measurement techniques
Thermodilution determination, *See under* Heart, cardiac output
Thermodilution pulmonary artery catheter, *See under* Equipment
Thermometry, deep body, *See under* Measurement techniques
Thiamylal, *See under* Anesthetics, intravenous
Thiopental, *See under* Anesthetics, intravenous; Anesthetics, rectal; Hypnotics, barbiturates; Pharmacokinetics
Thiosulfate, *See under* Pharmacokinetics
Thoracic anesthesia, *See under* Anesthesia; Anesthetic techniques, peridural
Thoracic surgery, *See under* Surgery
Thoracoscopy, *See under* Surgery
Thoracotomy, *See under* Surgery
Thromboembolism, *See under* Complications; Embolism
Thrombosis, *See under* Arteries; Complications
Thromboxane, *See under* Mediators
Thrombus, *See under* Complications
Thymectomy, *See under* Surgery
Thymidine, *See under* Cells; Metabolism; Mitosis
Thyroid, *See under* Hormones
Thyroid hormone, *See under* Hormones
Thyroidectomy, *See under* Hormones; Surgery

Thyrotoxicosis, *See under* Complications
Tidal volume, *See under* Lung(s); Ventilation
Timolol, *See under* Sympathetic nervous system, beta-adrenergic blockers
Todd's paralysis, *See under* Complications
Tolerance, acute, *See also under* Analgesics, narcotic, Potency, anesthetic
to thiopental, and model for studying depth of anesthesia with (OA) [Hudson, Stanski, Saidman & Meathe], **59:** 301
Tomography, *See under* Measurement techniques
Tonometer, blood gas, *See under* Equipment
Topical anesthesia, *See under* Anesthetic techniques; Anesthetics, local
Topical infiltration, *See under* Anesthetic techniques
Tourniquets, *See under* Equipment
Toxicity
anesthetics
in halothane-induced hepatic damage and hypoxia (CO) [Kissin & Reyes], **60:** 74
atracurium
additional information needed (CO) [Nigrovic & Koechel], **60:** 606
bleomycin
and restriction of oxygen (CO) [Goldiner & Rooney], **61:** 225
and restriction of oxygen (CO) [LaMantia, Glick & Marshall], **61:** 226
and small sample sizes (CO) [Lerman], **61:** 219
in surgical patients, supplemental oxygen does not cause respiratory failure in (CR) [LaMantia, Glick & Marshall], **60:** 65
bupivacaine
and bier block (CO) [Moore], **61:** 782
and Bier blocks (CO) [Heath], **59:** 481
cardiac arrhythmias induced by, in sheep (OA) [Kotelko, Shnider, Dailey, Brizgys, Levinson, Shapiro, Koike & Rosen], **60:** 10
and epinephrine with, in obstetrics (CO) [Albright], **61:** 217
and epinephrine with, in obstetrics (CO) [Marx], **61:** 218
carbon tetrachloride
in study of free radical formation *in vivo* and hepatotoxicity due to halothane anesthesia (OA) [Plummer, Beckwith, Bastin, Adams, Cousins & Hall], **57:** 160
carcinogenicity
assays of urines of operating personnel for (OA) [Baden, Kelley, Cheung & Mortelmans], **53:** 195
of halothane metabolites, assays of, in *Bacillus subtilis* and *Salmonella typhimurium* (OA) [Sachev, Cohen & Simmon], **53:** 31
in low-level binding of halothane metabolites to rat liver histones *in vivo* (OA) [Edmunds, Trudell & Cohen], **54:** 298
nitrous oxide, and cancer (EV) [Cohen], **52:** 6
cardiac
bupivacaine, may be more related to technique than to drug (CO) [Knapp], **60:** 257
in etidocaine anesthesia in adult, newborn, and fetal sheep (OA) [Morishima, Pedersen, Finster, Feldman & Covino], **58:** 342
of lidocaine, in adult, newborn, and fetal sheep (OA) [Morishima, Pedersen, Finster, Sakuma, Bruce, Gutsche, Stark & Covino], **55:** 57
long-acting local anesthetic drugs and (CR) [Moore, Thompson & Crawford], **56:** 230
cardiogenicity
enflurane, in mice (OA) [Baden, Egbert & Mazze], **56:** 9
convulsions
and activation of epileptogenic activity of etomidate (CR) [Gancher, Laxer & Krieger], **61:** 616
in alterations in cerebral monoamines and lidocaine toxicity in rats (OA) [Niederlehner, DiFazio, Foster & Westfall], **56:** 184
in etidocaine anesthesia in adult, newborn, and fetal sheep (OA) [Morishima, Pedersen, Finster, Feldman & Covino], **58:** 342
during lidocaine infusion in rat (OA) [Maekawa, Oshibuchi, Takeshita & Imamura], **54:** 278
in lidocaine infusions in adult, newborn, and fetal sheep (OA) [Morishima, Pedersen, Finster, Sakuma, Bruce, Gutsche, Stark & Covino], **55:** 57
lidocaine-induced, selective metabolic activation of hippocampus during (OA) [Ingvar & Shapiro], **54:** 33
local anesthetic-induced, administer oxygen first in treatment of (CO) [Moore], **53:** 346
long-acting local anesthetic drugs and (CR) [Moore, Thompson & Crawford], **56:** 230
mixtures of local anesthetics are no more likely to cause than parent drugs (OA) [deJong & Bonin], **54:** 177
in tetraphasic action of lidocaine in cats (OA) [Seo, Oshima, Stevens & Mori], **57:** 451
cyanide
antagonism of nitroprusside effects by, may not be clinically relevant (CO) [Cole & Vesey], **59:** 159
Antagonism of nitroprusside effects by, may not be clinically relevant (CO) [Smith, Kruszyna & Kruszyna], **59:** 160
antidotes and methods of administration (OA) [Ivankovich, Braverman, Kanuru, Heyman & Paulissian], **52:** 210
captopril pretreatment reduces potential for (OA) [Woodside, Garner, Bedford, Sussman, Miller, Longnecker & Epstein], **60:** 413
and cyclic guanylate monophosphate concentrations during relaxation of rabbit aortic strips (OA) [Kruszyna, Kruszyna & Smith], **57:** 303
release, in photodegradation of sodium nitroprusside (OA) [Arnold, Longnecker & Epstein], **61:** 254
during sodium nitroprusside administration and surgery (OA) [Ivankovich, Braverman, Stephens, Shulman & Heyman], **58:** 11
and vitamin B_{12} levels in serum, during sodium nitroprusside administration in humans (OA) [Fahmy], **54:** 305
deaths
mixtures of local anesthetic are no more likely to cause than parent drugs (OA) [deJong & Bonin], **54:** 177
endotoxin
and involvement of endotoxin in halothane-associated liver injury (OA) [Lind, Gandolfi, Sipes & Brown], **61:** 544
fetal
as health problem in dental workers following exposure to anesthetic gases (EV) [Michenfelder], **53:** 1
of lidocaine, in sheep (OA) [Morishima, Pedersen, Finster, Sakuma, Bruce, Gutsche, Stark & Covino], **55:** 57
in mice chronically exposed to enflurane (OA) [Wharton, Mazze & Wilson], **54:** 505
and neonatal neurobehavior, duration of effect of maternally administered meperidine on (CR) [Hodgkinson & Husain], **56:** 51
nonasphyxiated and asphyxiated baboon fetuses, lidocaine in (OA) [Morishima & Covino], **54:** 182
free radicals
control of reactions, in cerebral hypoxia, barbiturates in (EV) [Steen & Michenfelder], **53:** 183
and hepatotoxicity due to anesthesia with halothane (OA) [Plummer, Beckwith, Bastin, Adams, Cousins & Hall], **57:** 160
and hydroperoxide production by halothane-free radicals (OA) [Bosterling & Trudell], **60:** 209

in lipid peroxidation in brain tissue *in vitro*, inhibitory effects of different barbiturates (OA) [Smith, Rehncrona & Siesjo], **53:** 186

halothane

halothane-related, contrasting effects on, in phenobarbital-hypoxia and triiodothyronine model (OA) [Uetrecht, Wood, Phythyon & Wood], **59:** 196

hepatic

anesthesia-induced (CO) [Gelman], **59:** 487

and binding of halothane free radicals to fatty acids following UV irradiation (OA) [Bosterling, Trevor & Trudell], **56:** 380

in formation of chlorotrifluoroethane and chlorodifluoroethylene from halothane (OA) [Maiorino, Sipes, Gandolfi, Brown & Lind], **54:** 383

and free radical formation *in vivo* due to halothane (OA) [Plummer, Beckwith, Bastin, Adams, Cousins & Hall], **57:** 160

to halothane (CO) [Strunin, Harrison & Davies], **58:** 391

halothane, pharmacogenetics and (EV) [Brown], **55:** 93

halothane-induced, effects of hypersensitivity to halothane metabolite on (LR) [Ford, Coyle & Harrington], **60:** 141

halothane-induced, in triiodothyronine-pretreated rats (OA) [Wood, Berman, Harbison, Hoyle, Phythyon & Wood], **52:** 470

as health problem in dental workers following exposure to anesthetic gases (EV) [Michenfelder], **53:** 1

and involvement of endotoxin in halothane-associated liver injury (OA) [Lind, Gandolfi, Sipes & Brown], **61:** 544

isoflurane and enflurane-induced, in triiodothyronine pretreatment (OA) [Berman, Kuhnert, Phythyon & Holaday], **58:** 1

and liver circulation and function during isoflurane and halothane anesthesia (OA) [Gelman, Fowler & Smith], **61:** 726

rat, in low-level binding of halothane metabolites to rat liver histones *in vivo* (OA) [Edmunds, Trudell & Cohen], **54:** 298

and reductive metabolism of halothane, genetic differences in, in three rat strains (OA) [Gourlay, Adams, Cousins & Hall], **55:** 96

hepatotoxicity

mechanism of, in hyperthyroid rats (CO) [Berman, Kuhnert, Phythyon & Holaday], **59:** 601

mechanism of, in hyperthyroid rats (CO) [Carmichael], **59:** 601

Laetrile

antidotes and methods of administration (OA) [Ivankovich, Braverman, Kanuru, Heyman & Paulissian], **52:** 210

leukotrienes

and hydroperoxide production by halothane-free radicals (OA) [Bosterling & Trudell], **60:** 209

and liver function and anesthetic metabolism in rats with chronic liver renal impairment (OA) [Rice, Sievenpiper & Mazze], **60:** 418

local anesthetics

bupivacaine: cardiotoxicity or anesthetic technique? (CO) [Conklin & Ziadlourad], **61:** 625

bupivacaine, may be more related to technique than to drug (CO) [Knapp], **60:** 257

cardiovascular effects (EV) [Marx], **60:** 3

cerebral and cardiac, influence of serum potassium on (OA) [Avery, Redon, Schaenzer & Tusy], **61:** 134

in interactions with cimetidine, in obstetrics (CO) [Hodgkinson], **60:** 508

in interactions with cimetidine, in obstetrics (CO) [Moir & McMorland], **60:** 507

in pregnant patient with mitral valve prolapse (CO) [Batra, Bridenbaugh, Caldwell, Crawford & Hecker], **60:** 141

and test dose of epidural anesthesia (CO) [Abouleish & Bourke], **61:** 344

and test doses of epidural anesthesia (CO) [Moore & Batra], **61:** 345

metabolites

atracurium

additional information needed (CO) [Nigrovic & Koechel], **60:** 606

halothane, effects of hypersensitivity to, on halothane-induced liver damage (LR) [Ford, Coyle & Harrington], **60:** 141

and hydroperoxide production by halothane-free radicals (OA) [Bosterling & Trudell], **60:** 209

and binding of halothane free radicals to fatty acid following UV irradiation (OA) [Bosterling, Trevor & Trudell], **56:** 380

chlorofluoroethane and chlorodifluoroethylene from halothane (OA) [Maiorino, Sipes, Gandolfi, Brown & Lind], **54:** 383

of enflurane, and renal fluoride excretion and plasma fluoride levels are dependent on urinary *p*H (OA) [Jarnberg, Ekstrand & Irestedt], **54:** 48

of fluorinated ether anesthetics, in Fischer 344 rats following isoniazid administration (OA) [Rice, Sbordone & Mazze], **53:** 489

fluorinated ether anesthetics, following ethanol consumption (OA) [Rice, Dooley & Mazze], **58:** 237

of halothane, and low-level binding of, to rat liver histones *in vivo* (OA) [Edmunds, Trudell & Cohen], **54:** 298

of halothane, genetic differences in, in three rat strains (OA) [Gourlay, Adams, Cousins & Hall], **55:** 96

of halothane, in obese and nonobese patients (OA) [Bentley, Vaughan, Gandolfi & Cork], **57:** 94

halothane hepatitis mystery and (EV) [Brown], **55:** 93

and hepatotoxicity due to anesthesia with halothane (OA) [Plummer, Beckwith, Bastin, Adams, Cousins & Hall], **57:** 160

and involvement of endotoxin in halothane-associated liver injury (OA) [Lind, Gandolfi, Sipes & Brown], **61:** 544

in isoniazid-induced enflurane defluorination in humans (OA) [Mazze, Woodruff & Heerdt], **57:** 5

of sevoflurane, in healthy human volunteers (OA) [Holaday & Smith], **54:** 100

methylmethacrylate

hazards of laser degradation of (CO) [Kroll, Morris & Norton], **61:** 115

mutagenicity

assays of urines of operating room personnel for (OA) [Baden, Kelley, Cheung & Mortelmans], **53:** 195

of halothane metabolites, assays of, in *Bacillus subtilis* and *Salmonella typhimurium* (OA) [Sachdev, Cohen & Simmon], **53:** 31

lack of, in halothane exposure in mammals *in vivo* (OA) [Basler & Rohrborn], **55:** 143

in mouse spermatozoa after exposure to inhalational anesthetics during early spermatogenesis (OA) [Land, Owen & Linde], **54:** 53

nitrous oxide, and cancer (EV) [Cohen], **52:** 6

sperm of anesthesiologists (OA) [Wyrobek, Brodsky, Gordon, Moore, Watchmaker & Cohen], **55:** 527

in test of sevoflurane, synthane, dioxychlorane, and dioxyflurane (LR) [Baden, Kelley & Mazze], **56:** 462

neonatal

neurobehavioral testing, of bupivacaine, mepivacaine, and 2-chloroprocaine used for pudendal block (OA) [Merkow, McGuinness, Erenberg & Kennedy], **52:** 309

neurotoxicity

as health problem in dental workers following exposure to anesthetic gases (EV) [Michenfelder], **53:** 1

in lidocaine infusions in adult, newborn, and fetal sheep (OA) [Morishima, Pedersen, Finster, Sakuma, Bruce, Gutsche, Stark & Covino], **55:** 57

neonatal, duration of effect of maternally administered meperidine on (CR) [Hodgkinson & Husain], **56:** 51

nitrous oxide, studies of, in man and rat (OA) [Dyck, Grina, Lambert, Calder, Oviatt, Tahder, Lund & Skau], **53:** 205
nitroprusside
and cyclic guanylate monophosphate concentrations during relaxation of rabbit strips (OA) [Kruszyna, Kruszyna & Smith], **57:** 303
and photodegradation of: biologic activity and cyanide release (OA) [Arnold, Longnecker & Epstein], **61:** 254
sodium thiosulfate disposition related to (OA) [Ivankovich, Braverman, Stephens, Shulman & Heyman], **58:** 11
nitrous oxide
averaging of, time-weighted method of (LR) [McGill, Rivera & Howard], **53:** 424
failure to correct, with folinic acid (CO) [O'Sullivan, Jennings, McCann, Ward, Scott & Weir], **57:** 558
failure to correct, with folinic acid (CO) [Skacel, Chanarin, Hewlett & Nunn], **57:** 557
overdose
chlorpromazine in child abuse (CR) [Ott, Pollack, Riddick, Reisch & Epstein], **58:** 178
phencyclidine
and cyclopropane requirement in rats (OA) [Raja, Moscicki, Woodside & DiFazio], **56:** 275
renal
assessment of, in Fischer 344 rats with chronic renal impairment, after administration of enflurane and gentamicin (OA) [Fish, Sievenpiper, Rice, Wharton & Mazze], **53:** 481
deuterated methoxyflurane anesthesia and, in Fischer 344 rats (LR) [Baden, Egbert & Mazze], **56:** 9
as health problem in dental workers following exposure to anesthetic gases (EV) [Michenfelder], **53:** 1
study of, in enflurane and halothane in patients with abnormal renal function (CR) [Mazze, Sievenpiper & Stevenson], **60:** 161
reproductive
in mice chronically exposed to enflurane (OA) [Wharton, Mazze & Wilson], **54:** 505
ryanodine
modification of, by dantrolene and halothane in model of malignant hyperthermia (OA) [Fairhurst, Hamamoto & Macri], **53:** 199
spermatotoxicity
in anesthesiologists (OA) [Wyrobek, Brodsky, Gordon, Moore, Watchmaker & Cohen], **55:** 527
subanesthetic concentrations
of enflurane, in mice (OA) [Baden, Egbert & Mazze], **56:** 9
teratogenicity
in dental workers, following exposure to anesthetic gases (EV) [Michenfelder], **53:** 1
as health problem in dental workers following exposure to anesthetic gases (EV) [Michenfelder], **53:** 1
in mice chronically exposed to enflurane (OA) [Wharton, Mazze & Wilson], **54:** 505
in mouse spermatozoa after exposure to inhalational anesthetics during early spermatogenesis (OA) [Land, Owen & Linde], **54:** 53
thiocyanate
and vitamin B_{12} levels in serum, during sodium nitroprusside administration in humans (OA) [Fahmy], **54:** 205
tissue uptake
of lidocaine, in nonasphyxiated and asphyxiated baboon fetuses (OA) [Morishima & Covino], **54:** 182
toxemia
of pregnancy, magnesium sulfate in prevention of succinylcholine-induced fasciculations in (CR) [DeVore & Asrani], **52:** 76
trace anesthesia
in operating room (SA) [Lecky], **52:** 157
trace concentrations
effective low-cost scavenging system for reducing (CR) [Meyers], **52:** 277
of enflurane, in chronically exposed mice (OA) [Wharton, Mazze & Wilson], **54:** 505
in exposure to, mortality rates and (CO) [Mazze], **52:** 281
and regulatory agencies (SA) [Mazze], **52:** 248
and scavenging waste gases in pediatric patients (CO) [Laucks], **59:** 612
waste anesthetic gases
ASA brochure on, fails to consider prevention (CO) [Mazze], **55:** 333
ASA brochure on, fails to consider prevention (CO) [Virtue], **55:** 332
T-piece, *See under* Equipment
Trace anesthetics, *See under* Anesthetics, gases; Anesthetics, volatile; Equipment, exhaust systems; Operating rooms, exhaust systems; Toxicity
Trace concentrations, *See under* Toxicity
Trachea, *See under* Airway; Lung(s)
Tracheobranchial epithelium, *See under* Airway
Tracheobronchomalacia, *See under* Airway
Tracheomegaly, *See under* Airway
Tracheostomy, *See under* Equipment; Surgery; Ventilation; Ventilation, artificial
Tracheostomy tubes, *See under* Equipment, tubes
Train-of-four, *See under* Monitoring; Neuromuscular transmission
Transconjunctival oxygen measuring device, *See under* Equipment
Transcutaneous cranial electrical stimulation, *See under* Brain
Transcutaneous oxygen electrodes, *See under* Equipment
Transducers, *See under* Equipment
Transesophageal Dopplers, *See under* Equipment
Transesophageal echocardiography, *See under* Monitoring
Transfusion
autotransfusion
intraoperative, in bilateral adrenalectomy for pheochromocytoma, hypertension after (CR) [Smith, Mihm & Mefford], **58:** 182
blood
transmission of acquired immunodeficiency syndrome (EV) [Miller & Bove], **58:** 493
concentrated erythrocytes
new fine-screen filters in, comparative evaluation of (OA) [Cullen, Kunsman, Caldera, Dennis & Valeri], **53:** 3
crossmatch
for cesarean section (CR) [Reisner], **58:** 476
frozen erythrocytes, serum potassium levels following (CR) [Rao, Mathru, Salem & El-Etr], **52:** 170
stored blood
for cesarean section (CR) [Reisner], **58:** 476
and estimation of allowable blood loss (CR) [Gross], **58:** 277
new fine-screen filters in, comparative evaluation of (OA) [Cullen, Kunsman, Caldera, Dennis & Valeri], **53:** 3
type and screen
for cesarean section (CR) [Reisner], **58:** 476
Transfusions, *See also under* Blood
filters
microfilters, evaluation of (CO) [Cullen], **54:** 432
stored blood
used blood bags for, simple method for sealing (CO) [Dhamee & Bardeen-Henschell], **54:** 92
Transmission, *See under* Nerve, axon; Neuromuscular transmission; Sympathetic nervous system
Transplantation, *See under* Surgery
Transpulmonary pressure recording, *See under* Measurement techniques
Transthoracic impedance, *See under* Equipment
Transtracheal ventilation, *See under* Ventilation

Trauma, ***See under*** **Complications**
Treacher-Collins syndrome, ***See under*** **Genetic factors**
Trichlorethylene, ***See under*** **Anesthetics, volatile**
Tricyclic antidepressants, ***See under*** **Sympathetic nervous system, sympathetic agents**
Trieger Dot Test, ***See under*** **Psychomotor function**
Trifluoroacetic acid, ***See under*** **Biotransformation (drug), fluorometabolites**
Triiodothyronine, ***See under*** **Hormones, thyroid**
Trimethaphan, ***See under*** **Anesthetic techniques, hypotension, induced; Blood pressure, hypotension; Sympathetic nervous system, ganglionic blocking agents**
Tubes, ***See under*** **Equipment**
d*-Tubocurarine,** ***See under **Neuromuscular relaxants**
Tumor resection, ***See under*** **Surgery**
Tuohy needle, ***See under*** **Equipment**
T-waves, ***See under*** **Heart**
Twitch tension, ***See under*** **Measurement techniques**
Tympanic membrane, ***See under*** **Complications; Ear**

U

Ulnar artery, ***See under*** **Arteries**
Ultrasonic Doppler, ***See under*** **Equipment**
Ultrasonic nephrostolithotomy, ***See under*** **Surgery**
Unilateral block, ***See under*** **Complications**
Unilateral ventilation, ***See under*** **Ventilation**
Unit measurements, ***See under*** **Measurement techniques**
Uptake, ***See under*** **Induction; Pharmacokinetics**
Uric acid, ***See under*** **Metabolism**
Uridine, ***See under*** **Cells; Metabolism; Mitosis**
Urinary retention, ***See under*** **Complications**
Urine, ***See under*** **Kidney**
Urologic anesthesia, ***See under*** **Anesthesia**
Urologic surgery, ***See under*** **Surgery**
Uterus
blood flow
of gravid ewes, effects of nitroglycerin and nitroprusside on (OA) [Wheeler, James, Meis, Rose, Fishburne, Dewan, Urban & Greiss], **52:** 390
displacement
modified device for (CO) [Elliott, King & Moore], **57:** 146
oxytocics
different cardiovascular effects of (CO) [Barros], **57:** 70

V

Vagotomy, ***See under*** **Parasympathetic nervous system**
Vagus nerve, ***See under*** **Parasympathetic nervous system**
Valves, ***See under*** **Equipment**
Vapor concentration analysis, ***See under*** **Monitoring**
Vapor pressure, ***See under*** **Physics**
Vaporizers, ***See under*** **Equipment**
Vascular capacitance, ***See under*** **Blood pressure**
Vascular monitoring, ***See under*** **Monitoring**
Vascular muscle, ***See under*** **Muscle**
Vascular permeability, ***See under*** **individual organs**
Vascular pressures, ***See under*** **Heart; Lung(s); Monitoring**
Vascular resistance, ***See under*** **Blood pressure; Hemodynamics; Lung(s)**
Vascular surgery, ***See under*** **Surgery**
Vasoconstriction, ***See under*** **Lung(s)**
Vasodilator therapy
in assessment of effect of altered resistive load on left ventricular systolic mechanics in dogs (OA) [Prewitt & Wood], **56:** 195
Vasopressin, ***See under*** **Hormones, antidiuretic**
Vecuronium, ***See under*** **Neuromuscular relaxants; Pharmacokinetics**
Vein
antecubital
CVP catheter placement from, using J-wire catheter guide (CR) [Smith, Albin, Ritter & Bunegin], **60:** 238
cannulation
CVP catheter placement using J-wire catheter guide (CR) [Smith, Albin, Ritter & Bunegin], **60:** 238
Doppler localization of internal jugular vein facilitates (CR) [Legler & Nugent], **60:** 481
jugular, safer, recognition of arterial puncture and use of external jugular route (CR) [Jobes, Schwartz, Greenhow, Stephenson & Ellison], **59:** 353
venospasm in, preventing peripheral venous access (CR) [Cunningham & Korbon], **59:** 141
carbon dioxide response
effect of protein intake on (OA) [Askanazi, Weissman, LaSala, Milic-Emili & Kinney], **60:** 106
measurement of, effect of brain levels of drugs on validity of techniques for (CO) [Roy], **60:** 264
complications
hematoma, in arterial puncture, safer jugular vein cannulation in prevention of (CR) [Jobes, Schwartz, Greenhow, Stephenson & Ellison], **59:** 353
continuous positive pressure
device for applying to nonventilated upper lung during one-lung ventilation (CO) [Hannenberg, Stawicz, Dienes & O'Brien], **60:** 254
device for applying to nonventilated upper lung during one-lung ventilation (CO) [Thiagarajah, Job & Rao], **60:** 253
external jugular
pulmonary artery catheter in, malfunction of (CO) [Campbell & Schwartz], **60:** 513
jugular
cannulation
simplified method of (CO) [Lee & Chestnut], **60:** 81
internal, Doppler localization of, for central venous cannulation (CR) [Legler & Nugent], **60:** 481
safer cannulation of, recognition of arterial puncture and use of external jugular route (CR) [Jobes, Schwartz, Greenhow, Stephenson & Ellison], **59:** 353
left internal jugular
cannulation complications (CO) [Fischler, Tritz, Vurpillat, Rongier & Vour'ch], **60:** 616
portal
and hemodynamics in dog during controlled hypotension with adenosine (OA) [Lagerkranser, Irestedt, Sollevi & Andreen], **60:** 547
spasm
peripheral, treatment of (CO) [Zmyslowski], **60:** 261
preventing peripheral venous access (CR) [Cunningham & Korbon], **59:** 141
Veins
cannulation
identification of external jugular vein for (CO) [Scheller & Saidman], **57:** 546
peripheral subcutaneous veins in children, successful central venous catheter placement from (CO) [Klein & Rudd], **52:** 447
permanent paralysis of accessory nerve after (CO) [Hoffman], **58:** 583
prediction of painful (CO) [Burstein & Vanga], **58:** 487
carbon dioxide
rebreathing, spontaneous breathing with T-piece circuit in prevention of (OA) [Dean & Keenan], **56:** 449

carbon dioxide output
in nitrous oxide during enflurane anesthesia in humans (OA) [Lam, Clement, Chung & Knill], **56:** 298
carbon dioxide response
epidural morphine and (CO) [Doblar], **56:** 487
epidural morphine and (CO) [Knill, Lam & Thompson], **56:** 486
complications
percutaneous cannulation of internal jugular vein in (CR) [Goldfarb & Lebrec], **56:** 321
dilatation
cutaneous, vs. phlebitis (CO) [Hunter], **52:** 188
cutaneous, vs. phlebitis (CO) [Stark & Miller], **52:** 188
external
intrathoracic vascular catheterization via (CR) [Schwartz, Jobes, Levy, Palermo & Ellison], **56:** 400
external cannulation
complications, right hydrothorax as (CR) [Ghani & Berry], **58:** 93
external jugular
aid to identifying (CO) [Scheller & Saidman], **57:** 546
internal jugular
cannulation of: cautionary note (CO) [Ellison, Jobes & Schwartz], **55:** 336
cannulation of: variation on theme (CO) [Christian], **55:** 335
new technique for location and cannulation of (CO) [Gibbs & Arandia], **54:** 89
jugular
cannulation: cautionary note (CO) [Ellison, Jobes & Schwartz], **57:** 345
cannulation, complications, using anterolateral approach, transient phrenic nerve blockade (CR) [Stock & Downs], **57:** 230
complications, during attempted cannulation, carotid-artery puncture as, ipsilateral mydriasis following (CR) [Forestner], **52:** 438
complications, following cannulation (CO) [Berry & Ghani], **56:** 411
complications, permanent paralysis of C-5, after cannulation of (CO) [Frasquet & Belda], **54:** 528
compression, and positive end-expiratory pressure, comparison of effects of, on canine cerebral venous pressure (OA) [Toung, Ngeow, Long, Rogers & Traystman], **61:** 169
external, central venous access in children via (CR) [Humphrey & Blitt], **57:** 50
internal, cannulation of, permanent paralysis of accessory nerve after (CO) [Hoffman], **58:** 583
phlebitis
vs. cutaneous vasodilatation (CO) [Hunter], **52:** 188
vs. cutaneous vasodilatation (CO) [Stark & Miller], **52:** 188
venipuncture
predicting painful (CO) [Burstein & Vanga], **58:** 487
venous pressure
and central venous access in children via external jugular vein (CR) [Humphrey & Blitt], **57:** 50
Venipuncture, *See under* Veins
Venospasm, *See under* Complications
Venous oxygen embolism, *See under* Embolism
Venous pressure, *See under* Veins
Ventilation
airway occlusion pressure
and analgesic effects of dezocine in humans (OA) [Gal & DiFazio], **61:** 716
responses to CO_2 in epidural morphine following epidural local anesthesia (OA) [Doblar, Muldoon, Abbrecht, Baskoff & Watson], **55:** 423
airway pressure
continuous positive (CPAP) and expiratory positive (EPAP), lung volumes, mechanics, and oxygenation during spontaneous positive-pressure ventilation, compared (OA) [Schlobohm, Falltrick, Quan & Katz], **55:** 416
alternating lung
alternating lung, effects of, on cardiopulmonary functions in dogs (OA) [Muneyuki, Konishi, Horiguchi, Tsujimoto, Saito, Sakakura & Konishi], **58:** 353
hemodynamic effects of (CO) [Muneyuki & Konishi], **60:** 75
hemodynamic effects of (CO) [Otto, Quan, Calkins, Waterson & Hameroff], **60:** 74
high-frequency (LR) [Hameroff, Calkins, Waterson & Kanel], **54:** 237
anesthetics
effect of, on thoracic gas volume and chest-abdomen dimensions (OA) [Hedenstierna, Lofstrom & Lundh], **55:** 499
effects of, of infants following cesarean section (OA) [Fisher, Mortola, Smith, Fox & Weeks], **59:** 389
effects of, following intravenous administration of midazolam and diazepam (OA) [Forster, Gardaz, Suter & Gemperle], **53:** 494
effects of, respiratory depression following diazepam, reversal with high-dose naloxone (OA) [Jordan, Lehane & Jones], **53:** 293
effects of, to surgical stimulation during enflurane anesthesia (CR) [Rosenberg, Tobias, Bourke & Kamat], **52:** 163
effects of, with enflurane or halothane anesthesia, and respiratory waveform and rebreathing in T-piece circuits (OA) [Byrick & Janssen], **53:** 371
apnea
effects of, and improving oxygenation during one-lung ventilation in dogs (OA) [Alfrey, Benumof & Trousdale], **55:** 381
life-threatening in infants recovering from anesthesia (OA) [Liu, Cote, Goudsouzian, Ryan, Firestone, Dedrick, Liu & Todres], **59:** 506
life-threatening perioperative, in ex-"premie" (EV) [Gregory & Steward], **59:** 495
postoperative, timolol and, in neonates and young infants (CO) [Bailey], **61:** 622
in premature infants, additional causes of (CO) [Fisher, Robinson & Gregory], **57:** 428
artificial
mouth-to-mouth, device for filtering (CO) [Caccomo], **61:** 638
resuscitation bag, need for, in operating room (CO) [Thys], **58:** 203
in study of interactions among ventilation, circulation, and uptake and distribution of halothane—use of hybrid computer multiple model (OA) [Fukui & Smith], **54:** 119
carbon dioxide response
and analgesic effects of dezocine in humans (OA) [Gal & DiFazio], **61:** 716
in assessment of effects of droperidol on respiratory drive in humans (OA) [Prokocimer, Delavault, Rey, Lefevre, Mazze & Desmonts], **59:** 113
biphasic depression of, following epidural morphine (OA) [Kafer, Brown, Scott, Findlay, Butz, Teeple & Ghia], **58:** 418
following diazepam, reversal with high-dose naloxone (OA) [Jordan, Lehane & Jones], **53:** 293
due to rib cage and to diaphragm motion after morphine (EV) [Marsh, Rehder & Knopp], **55:** 493
due to rib cage and to diaphragm motion after morphine (OA) [Rigg & Rondi], **55:** 507
effect of lidocaine on (OA) [Gross, Caldwell, Shaw & Laucks], **59:** 521
effects of physostigmine on (OA) [Spaulding, Choi, Gross, Apfelbaum & Broderson], **61:** 551
with enflurane or halothane anesthesia, and respiratory waveform

and rebreathing in T-piece circuits (OA) [Byrick & Janssen], **53:** 371
in epidural morphine following epidural local anesthesia (OA) [Doblar, Muldoon, Abbrecht, Baskoff & Watson], **55:** 423
and influence to epinephrine as adjuvant to epidural morphine (OA) [Bromage, Camporesi, Durant & Nielsen], **58:** 257
following intrathecal morphine after upper abdominal surgery (OA) [Clergue, Montembault, Despierres, Ches-Quiere, Harari & Viars], **61:** 677
following intravenous administration of midazolam and diazepam (OA) [Forster, Gardaz, Suter & Gemperle], **53:** 494
measurements may be misleading (CO) [Gros-], **61:** 110
morphine-induced depression of, in human subjects, physostigmine antagonizes (OA) [Snir-Mor, Weinstock, Davidson & Bahar], **59:** 6
in nalbuphine and in morphine analgesia, compared (OA) [Gal, DiFazio & Moscicki], **57:** 367
in nitrous oxide during enflurane anesthesia in humans (OA) [Lam, Clement, Chung & Knill], **56:** 298
in pharmacologic studies of breathing (CO) [Knill], **59:** 609
sites on action of halothane on, in cats (OA) [Berkenbosch, Goede, Olievier & Quanjer], **57:** 389
to surgical stimulation during enflurane anesthesia (OA) [Rosenberg, Tobias, Bourke & Kamat], **52:** 163
after thiopental and midazolam (OA) [Gross, Zebrowski, Carel, Gardner & Smith], **58:** 540
time course of, after intravenous diazepam (OA) [Gross, Smith & Smith], **57:** 18

carbon dioxide tension
anesthesia and (EV) [Nunn], **52:** 107
lung volume and, in response to intravenous versus inhalation anesthesia in sheep (OA) [Dueck, Rathbun & Greenburg], **61:** 55
in response to inhalation anesthesia and mechanical ventilation (OA) [Dueck, Rathbun & Harrison], **55:** 127

continuous positive airway pressure
in comparison of ventilatory patterns in treatment of freshwater near-drowning in dogs (OA) [Bergquist, Vogelhut, Modell, Sloan & Ruiz], **52:** 142
device for oxygen insufflation with, during one-lung ventilation (CO) [Brown & Davis], **61:** 481
through double-lumen tube, selective administration of, treatment and pulmonary insufficiency by (CR) [Venus, Pratap & Op'Tholt], **53:** 74
in hemidiaphragmatic paralysis (CR) [Robotham, Chipps & Shermeta], **52:** 167
for treatment of hiccups in anesthetized subjects (CO) [Saitto, Gristina & Cosmi], **57:** 345
treatment of severe tracheobronchomalacia with (CR) [Kanter, Pollack, Wright & Grundfast], **57:** 54

continuous positive pressure
in comparison of ventilatory patterns in treatment of freshwater near-drowning in dogs (OA) [Bergquist, Vogelhut, Modell, Sloan & Ruiz], **52:** 142
in dog, renal response to, role of sinoaortic baroreceptors in initiating (OA) [Fewell & Bond], **52:** 408
after pulmonary microembolization, lung water increases with fluid administration during (OA) [Noble & Kay], **61:** 703
simplified method of delivery of, to nonventilated lung during unilateral pulmonary ventilation (CO) [Lyons], **61:** 216

control
and response to hypoxia, effect of lidocaine infusion on (OA) [Gross, Caldwell, Shaw & Apfelbaum], **61:** 662

controlled
in confirmation of postoperative hypoxemia due to opening of patent foramen ovale (CR) [Lemaire, Richalet, Carlet, Brun-Buisson & MacLean], **57:** 233
fentanyl infusion in intensive care unit during: tolerance to anesthetic effects? (CR) [Shafer, White, Schuttler & Rosenthal], **59:** 245
influence of, on response to fluid load in dogs (OA) [Marshall, Berry, Marshall & Geer], **57:** 103
pacemaker malfunction associated with (CR) [Thiagarajah, Azar, Agres & Lear], **58:** 565

controlled mechanical
long-term, with positive end-expiratory pressure, effect of, on renal function, in dogs (OA) [Berry, Geer, Marshall, Wu, Zbuzek & Marshall], **61:** 406

dead space
calculation of, in assessment of ventilatory requirements of critically ill neonates (OA) [Epstein & Hyman], **53:** 379
and respiratory effects of nitrous oxide during enflurane anesthesia in humans (OA) [Lam, Clement, Chung & Knill], **56:** 298
during weaning with IMV versus spontaneous ventilation in good-risk cardiac-surgery patients (CR) [Hastings, Bushnell, Skillman, Weintraub & Hedley-Whyte], **53:** 429

depression
methadone titration to avoid excessive (CO) [Gourlay, Willis & Wilson], **59:** 364
methadone titration to avoid excessive (CO) [Wangler & Rosenblatt], **59:** 363
following only 0.4 mg of intrathecal morphine (CO) [Glass], **60:** 256
and pharmacokinetics of morphine injected intravenously into anesthetized dog (OA) [Hug, Murphy, Rigel & Olson], **54:** 38

diaphragm
general anesthesia and (MI) [Schmid & Rehder], **55:** 658
motion, and changes in rib cage contributing to, after morphine (EV) [Marsh, Rehder & Knopp], **55:** 493
motion, and changes in rib cage contributing to, after morphine (OA) [Rigg & Rondi], **55:** 507
and thoracic gas volume and chest-abdomen dimensions during anesthesia and muscle paralysis (OA) [Hedenstierna, Lofstrom & Lundh], **55:** 499

differential
effects of, on patients with acute bilateral lung disease (OA) [Baehrendtz & Hedenstierna], **61:** 511
with selective PEEP, ventilation and perfusion of each lung during (OA) [Hedenstierna, Baehrendtz, Klingstedt, Santesson, Soderborg, Dahlborn & Bindslev], **61:** 369

distribution
anesthesia and (EV) [Nunn], **52:** 107
and blood flow, altered, following induction of inhalational anesthesia (OA) [Dueck, Young, Clausen & Wagner], **52:** 113
canine, in response to inhalation anesthesia and mechanical ventilation (OA) [Dueck, Rathbun & Harrison], **55:** 127
in selective administration of continuous positive airway pressure through double-lumen tube, in treatment of unilateral pulmonary insufficiency (CR) [Venus, Pratap & Op'Tholt], **53:** 74

end-exhalation
detection of, by airway thermistor (CR) [Oden, Mitchell & Benumof], **58:** 467

expiratory flow retard
hypotension secondary go air trapping treated with (CR) [Weng, Smith, Graybar & Kirby], **60:** 350

failure
assessment of changes in venous admixture with alterations of

inspired oxygen concentration in (OA) [Quan, Kronberg, Schlobohm, Feeley, Don & Lister], **52:** 477
hypophosphatemic, complicating total parenteral nutrition (CO) [Youssef], **57:** 246
in intraoperative diagnosis of gastrobronchial fistula during surgery for diaphragmatic hernia (CR) [Quasha & Pairolero], **52:** 175
lung volumes, mechanics, and oxygenation during spontaneous positive-pressure ventilation in: advantage of CPAP over EPAP (OA) [Schlobohm, Falltrick, Quan & Katz], **55:** 416

gas trapping
assessment of, in study of thoracic gas volume and chest-abdomen dimensions during anesthesia and muscle paralysis (OA) [Hedenstierna, Lofstrom & Lundh], **55:** 499

goats
oxygenation during (CO) [Gardaz, Perez-Chada & Sykes], **56:** 491

high frequency (HFV)
alternating lung (LR) [Hameroff, Calkins, Waterson & Kanel], **54:** 237
positive pressure, effects of, on intracranial pressure and brain surface movement in cats (OA) [Todd, Toutant & Shapiro], **54:** 496
regional organ blood flow during (OA) [Bunegin, Smith, Sjostrand, Albin, Babinski, Heisel & Borg], **61:** 416

high frequency positive-pressure (HFPPV)
in bronchopleural fistula (CR) [Carlon, Ray, Klain & McCormack], **52:** 160
regional organ blood flow during (OA) [Bunegin, Smith, Sjostrand, Albin, Babinski, Heisel & Borg], **61:** 416
in ventilatory insufficiency (EV) [Kirby], **52:** 109

high-frequency jet
for laryngoscopy (CR) [Babinski, Smith & Klain], **52:** 178
in postoperative respiratory failure: determinants of oxygenation (OA) [Rouby, Fusciardi, Bourgain & Viars], **59:** 281

hypoxic response
in changes in venous admixture with alterations of inspired oxygen concentration (OA) [Quan, Kronberg, Schlobohm, Feeley, Don & Lister], **52:** 477
drive, halothane-induced depression of, does almitrine restore? (CO) [Clergue & Derenne], **61:** 627
drive, halothane-induced depression of, does almitrine restore? (CO) [Ward], **61:** 627
to halothane anesthesia (EV) [Hornbein], **61:** 119
and site of selective action of halothane on peripheral chemoreflex pathway in humans (OA) [Knill & Clement], **61:** 121

intermittent mandatory ventilation
versus spontaneous ventilation, cardiorespiratory dynamics during weaning with, in good-risk cardiac-surgery patients (CR) [Hastings, Bushnell, Skillman, Weintraub & Hedley-Whyte], **53:** 429

intermittent positive-pressure (IPPV)
in experiments on role of sinoaortic baroreceptors in initiating renal response to continuous positive-pressure ventilation in dog (OA) [Fewell & Bond], **52:** 408
regional organ blood flow during (OA) [Bunegin, Smith, Sjostrand, Albin, Babinski, Heisel & Borg], **61:** 416
in study of thoracic gas volume and chest-abdomen dimensions during anesthesia and muscle paralysis (OA) [Hedenstierna, Lofstrom & Lundh], **55:** 499
tension pneumoperitoneum following (CR) [Roberts, Blake & Bruggeman], **55:** 326

jet-
respiratory assistance by, during broncho-fiberscopy in forty-nine infants (CO) [Oalens, Labbe & Haberer], **57:** 551

low
and renal function (CO) [Priebe & Hedley-Whyte], **57:** 144

mechanical
in bronchopleural fistula (CR) [Carlon, Ray, Klain & McCormack], **52:** 160
calculation of, in assessment of ventilatory requirements of critically ill neonates (OA) [Epstein & Hyman], **53:** 379
in confirmation of postoperative hypoxemia due to opening of patent foramen ovale (CR) [Lemaire, Richalet, Carlet, Brun-Buisson & MacLean], **57:** 233
construction of linear resistances for testing of ventilators used in (LR) [Saklad & Weyerhaeuser], **52:** 71
Dunpaco ventilator valve assembly in, problems with (CO) [Warren & Gintautas], **53:** 528
during endobronchial anesthesia, pulmonary oxygen exchange during (OA) [Katz, Laverne, Fairley & Thomas], **56:** 164
measurement of functional residual capacity during, by simultaneous exchange of two insoluble gases (LR) [Ozanne, Zinn & Fairley], **54:** 413
pancuronium bromide to facilitate, in sedated patients with respiratory failure (CR) [Bishop], **60:** 369
postoperative, prediction of need for, in myasthenia gravis (OA) [Leventhal, Orkin & Hirsh], **53:** 26
in postoperative respiratory care, comparing early and late extubation following coronary-artery bypass grafting (OA) [Quasha, Loeber, Feeley, Ullyot & Roizen], **52:** 135
respiratory waveform and rebreathing in T-piece circuits enflurane and halothane waveforms compared in (OA) [Byrick & Janssen], **53:** 371
using Sanders' jet injector technique, avoiding complications during (CO) [Mette], **52:** 451
in systematic method for validation of gas exchange measurements (LR) [Damask, Weissman, Askanazi, Hyman, Rosenbau, & Kinney], **57:** 213
tidal volume, low, effects of, on intracranial pressure and brain surface movement in cats (OA) [Todd, Toutant & Shapiro], **54:** 496
in ventilatory insufficiency (EV) [Kirby], **52:** 109
in volume, ventilation systems for infants (CR) [Bazaral], **54:** 240
weaning, cardiorespiratory dynamics during, with IMV versus spontaneous ventilation in good-risk cardiac-surgery patients (CR) [Hastings, Bushnell, Skillman, Weintraub & Hedley-Whyte], **53:** 429
and weaning, urinary antidiuretic hormone excretion during (OA) [Hemmer, Vaiquerat, Suter & Vallotton], **52:** 395

minute
during labor with epidural analgesia (OA) [Hagerdal, Morgan, Sumner & Gutsche], **59:** 425

monitoring
during regional anesthesia (CO) [Jain & Gold], **60:** 166

mouth occlusion pressure
in assessment of effects of droperidol on respiratory drive in humans (OA) [Prokocimer, Delavault, Rey, Lefevre, Mazze & Desmonts], **59:** 113

one-lung
device for applying CPAP to nonventilated upper lung during (CO) [Thiagarajah, Job & Rao], **60:** 253
device for applying CPCP to nonventilated upper lung during (CO) [Hannenberg, Satwicz, Dienes & O'Brien], **60:** 254
device for oxygen insufflation with continuous positive airway pressure during (CO) [Brown & Davis], **61:** 481
in morbidly obese patients (CR) [Brodsky, Wyner, Ehrenwerth, Merrell & Cohn], **57:** 132
which lung should be PEEPed? (EV) [Benumof], **56:** 161

oxygen response
and oxygen drive to breathing during halothane anesthesia: effects of almitrine bismesilate (CO) [Clergue & Derenne], **61:** 627
and oxygen drive to breathing during halothane anesthesia: effects of almitrine bismesilate (CO) [Ward], **61:** 627
and oxygen drive to breathing during halothane anesthesia: effects of almitrine bismesilate (OA) [Clergue, Ecoffey, Derenne & Viars], **60:** 123
oxygen tension
anesthesia and (EV) [Kirby], **52:** 109
and blood flow, altered, following induction of inhalational anesthesia (OA) [Dueck, Young, Clausen & Wagner], **52:** 113
lund volume and, in response to intravenous versus inhalation anesthesia in sheep (OA) [Dueck, Rathbun & Greenburg], **61:** 55
oxygen tension (gradients)
assessments of, during spontaneous positive-pressure ventilation: advantage of CPAP over EPAP (OA) [Schlobohm, Falltrick, Quan & Katz], **55:** 416
canine, in response to inhalation anesthesia and mechanical ventilation (OA) [Dueck, Rathbun & Harrison], **55:** 127
in diaphragmatic hernia of newborn (CR) [Harrington, Raphaely & Downes], **56:** 473
and pulmonary oxygen exchange, during endobronchial anesthesia, effect of tidal volume and PEEP (OA) [Katz, Laverne, Fairley & Thomas], **56:** 164
pattern
precurarization inhibits maximal ventilatory effort (CR) [Bruce, Downs, Kalkarni & Capan], **61:** 618
pattern of breathing
following intrathecal morphine after upper abdominal surgery (OA) [Clergue, Montembault, Despierres, Ghesquiere, Harari & Viars], **61:** 677
pediatric
continuous positive airway pressure, in hemidiaphragmatic paralysis (CR) [Robotham, Chipps & Shermeta], **52:** 167
perfusion
anesthesia and (EV) [Kirby], **52:** 109
and blood flow, altered, following induction of inhalational anesthesia (OA) [Dueck, Young, Claussen & Wagner], **52:** 113
lung volume and, in response to intravenous versus inhalation anesthesia in sheep (OA) [Dueck, Rathbun & Greenburg], **61:** 55
and mixed venous O_2 tension, effects of, on gas exchange (OA) [Bishop & Cheney], **58:** 130
pancuronium bromide to facilitate, in sedated patients with respiratory failure (CR) [Bishop], **60:** 369
in response to inhalation anesthesia and mechanical ventilation (OA) [Dueck, Rathbun & Harrison], **55:** 127
positive end-expiratory pressure (PEEP)
canine left ventricular volume response to (OA) [Brown, Bazaral, Nath & Delaney], **54:** 409
in comparison of ventilatory patterns in treatment of freshwater near-
in continuous positive-pressure ventilation in dog, in experiments on role of sinoaortic baroreceptors in initiating renal response to (OA) [Fewell & Bond], **52:** 408
drowning in dogs (OA) [Bergquist, Vogelhut, Modell, Sloan & Ruiz], **52:** 142
effect of, on cerebral blood flow and cerebrospinal fluid pressure in goats (OA) [Doblar, Santiago, Kahn & Edelman], **55:** 244
effect of, on pulmonary oxygen exchange during endobronchial anesthesia (OA) [Katz, Laverne, Fairley & Thomas], **56:** 164
effect of, on renal function, plasma renin, aldosterone, neurophysins and urinary ADH, and prostaglandins (OA) [Annat, Viale, Xuan, Aissa, Benzoni, Vincent, Gharib & Motin], **58:** 136
effects of, on improvement of oxygenation during one-lung ventilation in dogs (OA) [Alfrey, Benumof & Trousdale], **55:** 381
effects of, on patients with acute bilateral lung disease (OA) [Baehrendtz & Hedenstierna], **61:** 511
extubation from ambient or, in adults (OA) [Quan, Falltrick & Schlobohm], **55:** 53
ICP/CBF effects of volume loading during (CO) [Doblar], **57:** 63
ICP/CBF effects of volume loading during (CO) [Drummond, Todd & Shapiro], **57:** 62
incorporation of, into Bain circuit (CO) [Castanos], **52:** 193
influence of, on response to fluid load in dogs (OA) [Marshall, Berry, Marshall & Geer], **57:** 103
and jugular venous compression, comparison of effects of, on canine cerebral venous pressure (OA) [Toung, Ngeow, Long, Rogers & Traystman], **61:** 169
long-term controlled mechanical ventilation with, effect of, on renal function, in dogs (OA) [Berry, Geer, Marshall, Wu, Zbuzek & Marshall], **61:** 406
noninvasive index of effects of, mixed expired gas transients as (CR) [Zinn, Ozanne & Fairley], **52:** 261
selective, ventilation and perfusion of each lung during differential ventilation with (OA) [Hedenstierna, Baehrendtz, Klingstedt, Santesson, Soderborg, Dahlborn & Bindslev], **61:** 369
spontaneous, lung volumes, mechanics, and oxygenation during, advantage of CPAP over EPAP (OA) [Schlobohm, Falltrick, Quan & Katz], **55:** 416
in study of contribution of closure of pulmonary units to impaired oxygenation during anesthesia (OA) [Bergman & Tien], **59:** 395
time course and mechanisms of lung-volume increase with, in acute pulmonary failure (OA) [Katz, Ozanne, Zinn & Fairley], **54:** 9
unilateral, effects of, on gas exchange and pulmonary perfusion in canine lobar pneumonia (OA) [Light, Mink & Wood], **55:** 251
to ventilated lung in one-lung ventilation: which lung for? (EV) [Benumof], **56:** 161
positive pressure
in management of tracheomegaly (CO) [Ngeow], **57:** 248
in management of tracheomegaly (CO) [Parris], **57:** 249
postoperative ventilation
following intrathecal morphine after upper abdominal surgery (OA) [Clergue, Montembault, Despierres, Ghesquiere, Harari & Viars], **61:** 677
pressure-volume
singularity in, for pulmonary artery catheter balloon (CO) [Tyler], **60:** 504
rebreathing
changes in, and diaphragm contribution to, after morphine (OA) [Rigg & Rondi], **55:** 507
in T-piece circuits, factors affecting (CO) [Byrick], **55:** 85
in T-piece circuits, factors affecting (CO) [Keenan], **55:** 84
regulation
and oxygen drive to breathing during halothane anesthesia: effects of almitrine bismesilate (OA) [Clergue, Ecoffey, Derenne & Viars], **60:** 125
sites of action of halothane on, in cats (OA) [Berkenbosch, de Goede, Olievier & Quanjer], **57:** 389
respiration
monitoring of, with gauze threa[illegible] (CO) [Moore], **61:** 623

resting
measurements may be misleading (CO) [Gross], **61:** 110
rib cage
changes in, and diaphragm contribution to, after morphine (EV) [Marsh, Rehder & Knopp], **55:** 493
general anesthesia and (MI) [Schmid & Rehder], **55:** 668
selective
selective endobronchial blocking versus selective intubation in (CO) [Dalens, Labbe, Haberer], **57:** 555
shunting
anesthesia and (EV) [Nunn], **52:** 107
and blood flow, altered, following induction of inhalational anesthesia (OA) [Dueck, Young, Claussen & Wagner], **52:** 113
calculation of, in changes in venous admixture with alterations of inspired oxygen concentration (OA) [Quan, Kronberg, Schlobohm, Feeley, Don & Lister], **52:** 477
in comparison of ventilatory patterns in treatment of freshwater near-drowning in dogs (OA) [Bergquist, Vogelhut, Modell, Sloan & Ruiz], **52:** 142
in diaphragmatic hernia of newborn (CR) [Harrington, Raphaely & Downes], **56:** 473
in hypoxemia following pulmonary embolism (OA) [Fisher, Noble & Kay], **54:** 204
lung volume and, in response to intravenous versus inhalation anesthesia in sheep (OA) [Dueck, Rathbun & Greenburg], **61:** 55
in response to inhalation anesthesia and mechanical ventilation (OA) [Dueck, Rathbun & Harrison], **55:** 127
sleep apnea
Treacher-Collins syndrome with: anesthetic considerations (CR) [Rao & Moss], **60:** 71
spontaneous
and effect of long-term controlled mechanical ventilation with positive end-expiratory pressure on renal function in dogs (OA) [Berry, Geer, Marshall, Wu, Zbuzek & Marshall], **61:** 406
influence of, on response to fluid load in dogs (OA) [Marshall, Berry, Marshall & Geer], **57:** 103
in study of interactions among ventilation, circulation, and uptake and distribution of halothane—use of hybrid computer multiple model (OA) [Fukui & Smith], **54:** 119
to surgical stimulation during enflurane anesthesia (CR) [Rosenberg, Tobias, Bourke & Kamat], **52:** 163
with T-piece circuit (OA) [Dean & Keenan], **56:** 449
stimulants
and oxygen drive to breathing during halothane anesthesia: effects of almitrine bismesilate (OA) [Clergue, Ecoffey, Derenne & Viars], **60:** 125
and oxygen drive to breathing during halothane anesthesia: effects of almitrine bismesilate (CO) [Clergue & Derenne], **61:** 627
and oxygen drive to breathing during halothane anesthesia: effects of almitrine bismesilate (CO) [Ward], **61:** 627
support
and renal function (RA) [Berry], **55:** 655
suppression
of increase of shunting caused by dopamine infusion (CO) [Lemaire, Regnier, Simoneau & Harf], **52:** 376
tachypnea
in response to halothane (OA) [Berkenbosch, de Goede, Olievier & Quanjer], **57:** 389
tidal volume
effect of, on pulmonary oxygen exchange during endobronchial anesthesia (OA) [Katz, Laverne, Fairley & Thomas], **56:** 164
in one-lung ventilation: which lung should be PEEPed? (EV) [Benumof], **56:** 161
following orally administered flunitrazepam for preanesthetic medication in children (CR) [Forster, Gamulin, Morel, Weiss & Rouge], **61:** 597
transtracheal
emergency (CO) [deLisser & Muravchick], **55:** 606
simple system for (CO) [Gildar], **58:** 106
systems for (CO) [Patel], **59:** 165
unilateral
pulmonary, simplified method of CPAP delivery to nonventilated lung (CO) [Lyons], **61:** 216
ventilation-perfusion ratio
lung volume and, in response to intravenous versus inhalation anesthesia in sheep (OA) [Dueck, Rathbun & Greenburg], **61:** 55
vomiting
following strabismus surgery in children, droperidol prophylaxis and (CR) [Abramowitz, Oh, Epstein, Ruttiman & Friendly], **59:** 589
wasted
(CO) [Epstein], **60:** 617
measured *in vitro* with eight anesthetic circuits with and without inline humidification (LR) [Cote, Petkau, Ryan & Welch], **59:** 442
zero end-expiratory pressure
in comparison of ventilatory patterns in treatment of freshwater near-drowning in dogs (OA) [Bergquist, Vogelhut, Modell, Sloan & Ruiz], **52:** 142
effect of, on pulmonary oxygen exchange during endobronchial anesthesia (OA) [Katz, Laverne, Fairley & Thomas], **56:** 164
Ventilation-perfusion ratio, *See under* Ventilation
Ventilators, *See under* Equipment
Ventilatory response, *See under* Carbon dioxide
Ventricles, *See under* Heart
Ventricular arrhythmia, *See under* Heart
Ventricular failure, *See under* Heart
Ventricular volumes, *See under* Heart
Verapamil, *See under* Anesthetic techniques, hypotension, induced; Heart, antiarrhythmia agents; Ions, calcium channel blockade; Ions, calcium entry blockers; Pharmacology; Sympathetic nervous system
Viral infection, *See under* Infection, viral
Virus particles, *See under* Cells
Viruses, *See also under* Infection
influenza
alterations in pulmonary pathology in, induced by diethyl ether, halothane, enflurane, and pentobarbital (OA) [Knight, Bedows, Nahrwold, Maassab, Smitka & Busch], **58:** 209
Viscosity, *See under* Anesthetics, gases; Anesthetics, volatile; Blood; Carbon dioxide; Gases, anesthetic; Oxygen
Vision, *See under* Eyes
Vital capacity, *See under* Lung(s)
Vitamin B_{12}
cofactor of methionine synthetase, no effect of hyperbaric oxygen on, in rats (LR) [Sharer, Monk & Nunn], **59:** 440
Volatile anesthetic analyzer, *See under* Equipment
Volatile anesthetics, *See under* Anesthetics, volatile
Volume, closing, *See under* Lung(s)
Volume, pulmonary, *See under* Lung(s)
Volume expansion, *See under* Theories of anesthesia
Vomiting, *See also under* Complications; Gastrointestinal tract, antiemetics
and antacid therapy in obstetrics (CO) [Roberts & Shirley], **53:** 83
antacids
and pulmonary aspiration of, following antacid therapy (CO) [Bassell & Gatha], **52:** 450

antiemetics
domperidone, effects of, on lower esophageal sphincter tone in late pregnancy (OA) [Brock-Utne, Downing, Dimopoulos, Rubin & Moshal], **52:** 321
droperidol
efficacy of (CR) [Cohen, Woods & Wyner], **60:** 67
metoclopramide
efficacy of (CR) [Cohen, Woods & Wyner], **60:** 67
droperidol
and antiemetic effects of, following outpatient strabismus surgery in children (CR) [Abramowitz, Oh, Epstein, Ruttiman & Friendly], **59:** 589
and antiemetic efficacy of metoclopramide (CO) [Dundee], **61:** 229
incidence
and hypotension during spinal anesthesia for cesarean section, method of ephedrine administration and (CR) [Datta, Alper, Ostheimer & Weiss], **56:** 68
metoclopramide
antiemetic efficacy of (CO) [Dundee], **61:** 229
efficacy of (CO) [Dundee], **61:** 229
nausea
and hypotension during spinal anesthesia for cesarean section method of ephedrine administration and (CR) [Datta, Alper, Ostheimer & Weiss], **56:** 68
following rostral spread of epidural morphine (OA) [Bromage, Camporesi, Durnat & Nielsen], **56:** 431

W

Washout, ***See under*** **Lung(s)**
Wasted ventilation, ***See under*** **Ventilation**
Water, ***See under*** **Brain; Fluid balance; Kidney; Membrane; Solubility; Lung(s)**
Water intoxication, ***See under*** **Fluid balance**
WDR neurons, ***See under*** **Spinal cord**
Weight, body, ***See under*** **Complications; Pharmacokinetics, uptake**
Wolff-Parkinson-White syndrome, ***See under*** **Heart**
Wrench holder, ***See under*** **Equipment**

X

Xenon, ***See under*** **Anesthetics, gases**

Z

Zero end-expiratory pressure, ***See under*** **Ventilation**
Zomepirac, ***See under*** **Analgesics, narcotic**

AUTHOR INDEX

A

Abboud, T. K., Raya, J., Noueihed, R., Daniel, J.: Intrathecal Morphine for Relief of Labor Pain in a Parturient with Severe Pulmonary Hypertension, **59:** 477

Abboud, T. K., Sarkis, F., Hung, T. T., Khoo, S. S., Varakian, L., Henriksen, E., Noueihed, R., Goebelsmann, U.: Effects of Epidural Anesthesia during Labor on Maternal Plasma Beta-Endorphin Levels, **59:** 1

Abboud, T. K., *see* Dailey, P. A.; *also see* Stefani, S. J.

Abbrecht, P. H., *see* Doblar, D. D.

Abernethy, D. R., *see* Greenblatt, D. J.; *also see* Vinik, H. R.

Abouleish, E.: Hypertension in a Paraplegic Parturient, **53:** 348

Abouleish, E.: The Disposition of Bupivacaine Following Epidural Anesthesia for Cesarean Section, **57:** 249

Abouleish, E., Amortegui, A. J.: Millipore Filters are not Necessary for Epidural Block, **55:** 604

Abouleish, E., Bourke, D.: Concerning the Use and Abuse of Test Doses for Epidural Anesthesia, **61:** 344

Abouleish, E., MacMurdo, D., Caffo, A. L., Lubin, A. H.: Rare Types of Cholinesterase in Two Parturients, **55:** 478

Abouleish, E., Orig, T., Amortegui, A. J.: Bacteriologic Comparison Between Epidural and Caudal Techniques, **53:** 511

Abram, S., *see* Frumin, M. J.

Abram, S. E., *see* Cusick, J. F.; *also see* Schachner, S. M.

Abramowitz, H. B., Cohen, C.: Use of Doppler for Difficult Axillary Block, **55:** 603

Abramowitz, M.: Safety Check for the CPRAM Circuit, **59:** 498

Abramowitz, M. D., Oh, T. H., Epstein, B. S., Ruttimann, U. E., Friendly, D. S.: The Antiemetic Effect of Droperidol Following Outpatient Strabismus Surgery in Children, **59:** 589

Abramowitz, M. D., *see* Hannallah, R. S.; *also see* Kaplan, R.

Abramowitz, R. M., *see* Neuman, G. G.

Abramson, A. L., *see* Neuman, G. G.

Abu-Zaineh, M., *see* Bishay, E. G.

Ackroyd, R. E., *see* Webb, A. I.

Adams, A. L.: Complication Following Guided Nasotracheal Intubation, **58:** 105

Adams, A. P., Hahn, C. E. W.: Principles and Practice of Blood Gas Analysis, **60:** 84

Adams, A. P., Hahn, C. E. W.: Principles and Practice of Blood-Gas Analysis, **52:** 289

Adams, J. F., *see* Gourlay, G. K.; *also see* Plummer, J. L.

Adams, R. W., Cucchiara, R. F., Gronert, G. A., Messick, J. M., Michenfelder, J. D.: Isoflurane and Cerebrospinal Fluid Pressure in Neurosurgical Patients, **54:** 97

Addonizio, P., *see* Rosenberg, H.

Agres, M., *see* Thiagarajah, S.

Ahlering, J. R., Brodsky, J. B.: Headache Immediately Following Attempted Epidural Analgesia in Obstetrics, **52:** 100

Ahmad, S., Hawes, D., Dooley, S., Faure, E., Brunner, E. A.: Intrathecal Morphine in a Parturient with a Single Ventricle, **54:** 515

Akins, C. W., *see* Lowenstein, E.; *also see* Philbin, D. M.

Akutagawa, T., *see* Saito, H.

Alberti, K. G. M. M., *see* Elliott, M. J.

Albin, M., *see* Wolf, S.

Albin, M. S.: Sights and Sounds of Air, **58:** 113

Albin, M. S.: The Paradox of Paradoxic Air Embolism—PEEP, Valsalva, and Patent Foramen Ovale. Should the Sitting Position Be Abandoned, **61:** 222

Albin, M. S., *see* Bunegin, L.; *also see* Kruczek, M.; Smith, S. L.

Albrecht, R. F., Miletich, D. J., Madala, L. R.: Normalization of CBF during Halothane, **58:** 26

Albrecht, R. F., *see* Barrera, M.; *also see* Hoffman, W. E.; Miletich, D. J.; Pelligrino, D. A.

Albright, G. A.: Epinephrine Should Be Used with the Therapeutic Dose of Bupivacaine in Obstetrics, **61:** 217

Albright, G. A., Jouppila, R., Hollmén, A. I., Jouppila, P., Vierola, H., Koivula, A.: Epinephrine Does Not Alter Human Intervillous Blood Flow during Epidural Anesthesia, **54:** 131

Albright, G. A., *see* Cohen, S. E.

Aldrete, J. A., Marron, G. M., Wright, A. J.: The First Administration of Anesthesia in Military Surgery: On Occasion of the Mexican-American War, **61:** 585

Aldrete, J. A., *see* Goldman, E.; *also see* Virtue, R. W.

Aldrete, J. A. (ed.), Stanley, T. H. (ed.): Trends in Intravenous Anesthesia, **53:** 526

Alexander, C., Wolf, S., Ghia, J. N.: Caudal Anesthesia for Early Onset Myotonic Dystrophy, **55:** 597

Alexander, C. M., *see* Domino, K. B.

Alexander, H., *see* Gisvold, S. E.

Alfery, D. D., Benumof, J. L., Trousdale, F. R.: Improving Oxygenation during One-lung Ventilation in Dogs: The Effects of Positive End-Expiratory Pressure and Blood Flow Restriction to the Nonventilated Lung, **55:** 381

Alfery, D. D., Shapiro, H. M., Gagnon, R. L.: Cardiac Arrest Following Rapid Drainage of Cerebrospinal Fluid in a Patient with Hydrocephalus, **52:** 443

Alfery, D. D., Ward, C. F., Plumer, M. H., Lynch, F.: Management of Tracheal Atresia with Tracheoesophageal Fistula, **53:** 242

Alfery, D. D., Zamost, B. G., Benumof, J. L.: Unilateral Lung Lavage: Blood Flow Manipulation by Ipsilateral Pulmonary Artery Balloon Inflation in Dogs, **55:** 376

Alfery, D. D., *see* Spragg, R. G.; *also see* Ward, C. F.

Ali, H. H., Savarese, J. J.: Stimulus Frequency and Dose–Response Curve to *d*-Tubocurarine in Man, **52:** 36

Ali, H. H., Savarese, J. J., Lebowitz, P. W., Ramsey, F. M.: Twitch, Tetanus and Train-of-Four as Indices of Recovery from Nondepolarizing Neuromuscular Blockade, **54:** 294

Ali, H. H., *see* Brown, M.; *also see* Donlon, J. V., Jr.; Martyn, J. A. J.; Savarese, J. J.

Ali, N. M. K., *see* Klein, S. L.; *also see* Sokoll, M. D.

Allen, E. M., Male, C. G., Rockoff, M. A., Goudsouzian, N. G.: Methohexital is Not Contraindicated in Epileptics, **56:** 240

Allen, H. L.: Fathers in the Delivery Rooms—Survey Results of Anesthesia Departments, **59:** 152

Allen, L. L., *see* Ramsey, F. M.

Allen, P. D., *see* Bourke, D. L.

Alper, M. H., *see* Datta, S.

Alpert, M., *see* Triner, L.

Alpert, R. A., *see* Beaupre, P. N.

Althaus, J. S., *see* Miller, E. D., Jr.; *also see* Woodside, J. R., Jr.

Amaha, K., *see* Iwatsuki, N.; *also see* Yasuda, I.

Amakata, Y., *see* Sumikawa, K.

Ambalabanar, E. S., *see* Martyn, J. A. J.

Amenomori, Y., *see* Sumikawa, K.

Amiel-Tison, C., Barrier, G., Shnider, S. M., Levinson, G., Hughes, S. C., Stefani, S. J.: A New Neurologic and Adaptive Capacity Scoring System for Evaluating Obstetric Medications in Full-term Newborns, **56:** 340

Amiel-Tison, C., Barrier, G., Shnider, S. M., Levinson, G., Hughes, S. C., Stefani, S. J.: The Neonatal Neurologic and Adaptive Capacity Score (NACS), **56:** 492

Amortegui, A. J., *see* Abouleish, E.

Amory, D. W., *see* Heavner, J. E.

Andersen, H. B., *see* Jørgensen, B. C.

Andersen, H. W., Benumof, J. L., Trousdale, F. R., Ozaki, G. T.: Increasing the Functional Gauge of the Side Port of Large Catheter Sheath Introducers, **56:** 57

Andersen, H. W., Ozaki, G. T., Benumof, J. L.: A New Improved Double-Lumen Tube Adaptor, **56:** 54

Andersen, P. K., *see* Stokke, D. B.

Anderson, C. E., Rendell-Baker, L.: Exposed O_2 Flush Hazard, **56:** 328
Anderson, J. L., *see* Dong, W. K.
Anderson, R. E., Michenfelder, J. D., Sundt, T. M., Jr.: Brain Intracellular *p*H, Blood Flow, and Blood–Brain Barrier Differences with Barbiturate and Halothane Anesthesia in the Cat, **52:** 201
Anderson, S., *see* Hoffman, W. E.
Andeweg, S. K., *see* Lebowitz, P. W.
Andrade, P. A., Wikinski, J. A.: Monitor of Sensory Level during Epidural or Spinal Anesthesia, **52:** 189
Andreen, M., *see* Lagerkranser, M.
Andrews, P. R., Mark, L. C.: Structural Specificity of Barbiturates and Related Drugs, **57:** 314
Andritsch, R. F., Muravchick, S., Gold, M. I.: Temperature Correction of Arterial Blood-Gas Parameters: A Comparative Review of Methodology, **55:** 311
Annat, G., Viale, J. P., Xuan, B. B., Hadj Aissa, O., Benzoni, D., Vincent, M., Gharib, C., Motin, J.: Hormonal and Renal Effects of PEEP, **58:** 136
Apfelbaum, J. L., *see* Gross, J. B.; *also see* Spaulding, B. C.
Arai, T., Kuzume, K.: Endotracheal Tube Obstruction Possibly due to Structural Fault, **59:** 480
Arakawa, K., *see* Oguchi, K.
Arandia, H., *see* Gibbs, C.
Arandia, H. Y., Erceg, G. W.: Bain PEEP, **52:** 193
Arandia, H. Y., *see* Thomas, P. S.
Arens, J. F., *see* Flewellen, E. H.; *also see* Tonnesen, A. S.
Ariagno, R. L., *see* Kimble, K. J.
Ariola, S., Jr., *see* Reiz, S.
Arlund, C., *see* Slogoff, S.
Armstrong, P. W. (ed.), Bargrie, R. S. (ed.): Hemodynamic Monitoring in the Critically Ill, **54:** 442
Arndt, J. O., Mikat, M., Parasher, C.: Fentanyl's Analgesic, Respiratory, and Cardiovascular Actions in Relation to Dose and Plasma Concentration in Unanesthetized Dogs, **61:** 355
Arndt, J. O., *see* Mikat, M.
Arnold, W. P., Longnecker, D. E., Epstein, R. M.: Photodegradation of Sodium Nitroprusside: Biologic Activity and Cyanide Release, **61:** 254
Arnold, W. P., Ruffin, J. C.: A Rapid, Semi-Automated Method for Determining Dibucaine Numbers, **55:** 676
Arnold, W. P., *see* Marshall, W. K.
Aronson, H. B., *see* Vatashsky, E.
Arthur, G. R., *see* Coyle, D. E.
Artru, A. A.: Cerebral Blood Volume and CSF Pressure with Halothane or Enflurane, **58:** 533
Artru, A. A.: Effects of Enflurane and Isoflurane on Resistance on Reabsorption of Cerebrospinal Fluid in Dogs, **61:** 529
Artru, A. A.: Isoflurane Does Not Increase the Rate of CSF Production in the Dog, **60:** 193
Artru, A. A.: Nitrous Oxide Plays a Direct Role in the Development of Tension Pneumocephalus Intraoperatively, **57:** 59
Artru, A. A.: Relationship between Cerebral Blood Volume and CSF Pressure during Anesthesia with Isoflurane or Fentanyl in Dogs, **60:** 575
Artru, A. A., Chadwick, H. S., Colley, P. S., Momil, S.: Interference with Processed Electroencephalographic Recording by Facial Nerve Stimulation, **59:** 605
Artru, A. A., Cucchiara, R. F., Messick, J. M.: Cardiorespiratory and Cranial-nerve Sequelae of Surgical Procedures Involving the Posterior Fossa, **52:** 83
Artru, A. A., Gronert, G. A.: Cerebral Metabolism during Porcine Malignant Hyperthermia, **53:** 121
Artru, A. A., Michenfelder, J. D.: Effects of Hypercarbia on Canine Cerebral Metabolism and Blood Flow with Simultaneous Direct and Indirect Measurement of Blood Flow, **52:** 466
Artru, A. A., Nugent, M., Michenfelder, J. D.: Enflurane Causes a Prolonged and Reversible Increase in the Rate of CSF Production in the Dog, **57:** 255
Artru, A. A., Steen, P. A., Michenfelder, J. D.: Cerebral Metabolic Effects of Naloxone Administered with Anesthetic and Subanesthetic Concentrations of Halothane in the Dog, **52:** 217
Artru, A. A., *see* Bonneu, J. J.; *also see* Nugent, M.
Artusio, J. F., Jr., *see* Yao, F.-S.
Asari, H., Inoue, K., Maruta, H., Hirose, Y.: The Inhibitory Effect of Intravenous *d*-Tubocurarine and Oral Dantrolene on Halothane-Succinylcholine-induced Myoglobinemia in Children, **61:** 332
Asari, H., Inoue, K., Shibata, T., Soga, T.: Segmental Effect of Morphine Injected into the Epidural Space in Man, **54:** 75
Ashcraft, K. E., Golladay, E. S., Guinee, W. S.: A Surgical Field Flash Fire during the Separation of Dicephalus Dipus Conjoined Twins, **55:** 457
Ashleman, B., *see* Martin, R. W.
Ashman, M. N., Scamman, F. L.: Computer Network for Program and Data Exchange, **60:** 386
Ashok, U., *see* Capan, L. M.
Ashton, J. P. A., *see* Mihm, F. G.; *also see* Pearl, R. G.
Askanazi, J., Nordenstrom, J., Rosenbaum, S. H., Elwyn, D. H., Hyman, A. I., Carpentier, Y. A., Kinney, J. M.: Nutrition for the Patient with Respiratory Failure: Glucose *vs.* Fat, **54:** 373
Askanazi, J., Weissman, C., LaSala, P. A., Milic-Emili, J., Kinney, J. M.: Effect of Protein Intake on Ventilatory Drive, **60:** 106
Askanazi, J., *see* Cozine, K.; *also see* Damask, M. C.; Pantuck, E. J.; Rosenbaum, S. H.; Wulfson, H. D.
Asrani, R., *see* DeVore, J. S.
Astarita, R. W., *see* Scheller, M. S.
Astrup, J., Skovsted, P., Gjerris, F., Sørensen, H. R.: Increase in Extracellular Potassium in the Brain during Circulatory Arrest: Effects of Hypothermia, Lidocaine, and Thiopental, **55:** 256
Astrup, J., Sørensen, P. M., Sørensen, H. R.: Inhibition of Cerebral Oxygen and Glucose Consumption in the Dog by Hypothermia, Pentobarbital, and Lidocaine, **55:** 263
Atkins, P. C., *see* Campbell, F. W.
Atkinson, R. S. (ed.), Hewer, C. L. (ed.): Recent Advances in Anaesthesia and Analgesia, No. 14, **58:** 398
Atlee, J. L., III, Malkinson, C. E.: Potentiation by Thiopental of Halothane–Epinephrine-induced Arrhythmias in Dogs, **57:** 285
Au, E., *see* Lee, C.
Augereau, P., *see* MacLeod, B. A.
August, G., *see* Flashburg, M. H.
Aultman, D. F., *see* Kissin, I.
Austin, K. L., Stapleton, J. V., Mather, L. E.: Relationship Between Blood Meperidine Concentrations and Analgesic Response: A Preliminary Report, **53:** 460
Avello, F., *see* Gómez-Arnau, J.
Avery, P., Redon, D., Schaenzer, G., Rusy, B.: The Influence of Serum Potassium on the Cerebral and Cardiac Toxicity of Bupivacaine and Lidocaine, **61:** 134
Avram, M. J., *see* Fragen, R. J.; *also see* Linde, H. W.
Aymon, E., *see* Gamulin, Z.
Azar, I.: Rectal Temperature is Best Indicator of Adequate Rewarming during Cardiopulmonary Bypass, **55:** 189
Azar, I.: The Response of Patients with Neuromuscular Disorders to Muscle Relaxants: A Review, **61:** 173
Azar, I., Betcher, A. M.: Response of a Patient with Atypical Pseudocholinesterase to Small Intermittent Succinyldicholine Doses, **54:** 519
Azar, I., Karambelkar, D. J., Lear, E.: Neurologic State and Psychomotor Function Following Anesthesia for Ambulatory Surgery, **60:** 347
Azar, I., Pham, A. N., Karambelkar, D. J., Lear, E.: The Heart Rate Following Edrophonium-Atropine and Edrophonium-Glycopyrrolate Mixtures, **59:** 139
Azar, I., Thiagarajah, S.: The Jury Is Still out in the Case of Isoflurane *versus* Halothane in Neurosurgical Patients, **61:** 786
Azar, I., *see* Thiagarajah, S.

B

Baba, S., *see* Goromaru, T.
Babin, R. W., *see* Scamman, F. L.
Babins, N. A., *see* Goldberg, M.

Babinski, M., Smith, R. B., Klain, M.: High-frequency Jet Ventilation for Laryngoscopy, **52:** 178

Babinski, M. F., Gilbert, J., Smith, S. L.: Venous Air Embolism is not Restricted to Neurosurgery!, **59:** 151

Babinski, M. F., *see* Bunegin, L.

Bachhuber, S. R., Seagard, J. L., Bosnjak, Z. J., Kampine, J. P.: The Effect of Halothane on Reflexes Elicited by Acute Coronary Artery Occlusion in the Dog, **54:** 481

Backes, D. J., *see* Roesch, R. P.

Backofen, J. E., Schauble, J. F., Rogers, M. C.: Transesophageal Pacing for Bradycardia, **61:** 777

Baden, J. M., Egbert, B., Mazze, R. I.: Carcinogen Bioassay of Enflurane in Mice, **56:** 9

Baden, J. M., Kelley, M., Cheung, A., Mortelmans, K.: Lack of Mutagens in Urines of Operating Room Personnel, **53:** 195

Baden, J. M., Kelley, M., Mazze, R. I.: Mutagenicity of Experimental Inhalational Anesthetic Agents: Sevoflurane, Synthane, Dioxychlorane, and Dioxyflurane, **56:** 462

Baden, J. M., Rice, S. A., Mazze, R. I.: Deuterated Methoxyflurane Anesthesia and Renal Function in Fischer 344 Rats, **56:** 203

Baden, J. M., *see* Brodsky, J. B.

Badgwell, J. M., Heavner, J. E.: Masseter Spasm Heralds Malignant Hyperthermia—Current Dilemma or Merely Academia Gone Mad, **61:** 230

Baehrendtz, S., Hedenstierna, G.: Differential Ventilation and Selective Positive End-expiratory Pressure: Effects on Patients with Acute Bilateral Lung Disease, **61:** 511

Baehrendtz, S., *see* Hedenstierna, G.

Baer, R. W., *see* Hickey, R. F.

Baerts, W. D. M., de Lange, J. J., Booij, L. H. D. J., Broere, G.: Complications of the Mayfield Skull Clamp, **61:** 460

Bageant, R. A., Hoyt, J. W., Epstein, R. M.: Error in a Pipeline Gas Concentration, an Unanticipated Consequence of a Defective Check Valve, **54:** 166

Bagshaw, R. J.: Hypotension May Have Profound Effect on the Liver, **59:** 168

Bagshaw, R. J., Cox, R. H.: Pulmonary Vascular Response and Initial State of Vasculature, **58:** 205

Bagshaw, R. J., Smith, D. S., Bloom, M. J., Mitchell, R. L., Young, M. L.: Perioperative Diuresis and ICP, **61:** 107

Bahar, M., Orr, I. A., Dundee, J. W.: Central Action of Spinal Opiates, **55:** 334

Bahar, M., *see* Snir-Mor, I.

Baier, H.: Assessment of Unilateral Lung Function, **52:** 240

Bailey, P. L.: Failed Release of an Activated Oxygen Flush Valve, **59:** 480

Bailey, P. L.: Timolol and Postoperative Apnea in Neonates and Young Infants, **61:** 622

Bain, J. A., Spoerel, W. E.: A Nylon Embedded Latex Connector for Nasotracheal Intubation, **60:** 497

Balasaraswathi, K., Kumar, P., Rao, T. L. K., El-Etr, A. A.: Left Ventricular End-Diastolic Pressure (LVEDP) as an Index for Nitrous Oxide Use during Coronary Artery Surgery, **55:** 708

Balestrieri, F. J., Prough, D. S.: Diagnostic Value of Systemic Curare Testing, **57:** 226

Bålfors, E., *see* Reiz, S.

Balfour, R. I., *see* Fitzgibbons, D. C.; *also see* McMahon, D. J.

Bancroft, G. H., Lauria, J. I.: Ketamine Induction for Cesarean Section in a Patient with Acute Intermittent Porphyria and Achondroplastic Dwarfism, **59:** 143

Bancroft, M. L., du Moulin, G. C., Hedley-Whyte, J.: Hazards of Hospital Bulk Oxygen Delivery Systems, **52:** 504

Band, D. M., *see* Lim, M.

Bandy, K. P., Finch, J. S.: Moisture-proofing the Beckman D2® Oxygen Analyzer, **52:** 190

Bangham, A. D., Mason, W. T.: Anesthetics May Act by Collapsing *p*H Gradients, **53:** 135

Banner, M. J., Boysen, P. G.: Demand Valve Improperly Set Resulting in Pulmonary Barotrauma, **61:** 86

Banner, T., *see* Gibbs, C. P.; *also see* James, C. F.

Banner, T. C., *see* Gibbs, C. P.

Banting, G. C., *see* Turnbull, K. W.

Baraka, A.: Anesthetic Mortality, **52:** 283

Baraka, A.: Rapid Sequence Induction in Patients with a Full Stomach, **57:** 543

Baraka, A., Hemady, K., Yamut, F., Yazigi, W., Canalis, R. F.: Postoperative Paralysis of Phrenic and Recurrent Laryngeal Nerves, **55:** 78

Baraka, A., Noueihid, R., Hajj, S.: Intrathecal Injection of Morphine for Obstetric Analgesia, **54:** 136

Barberii, J. K., *see* Conahan, T. J.

Bardeen-Henschel, A., *see* Dhamee, M. S.

Bargrie, R. S. (ed.), *see* Armstrong, P. W. (ed.)

Barlow, A. L., *see* Ikeda, S.

Barney, J. A., *see* Kotrly, K. J.

Barrer, M. A., *see* Keykhak, M. M.

Barrera, M., Miletich, D. J., Albrecht, R. F., Hoffman, W. E.: Hemodynamic Consequences of Halothane Anesthesia during Chronic Anemia, **61:** 36

Barrier, G., *see* Amiel-Tison, C.; *also see* Cohen, S. E.

Barros R., S., Rodriguez J., G.: Naloxone as an Antagonist in Alcohol Intoxication, **54:** 174

Barros, S.: Oxytocic Drugs Have Different Cardiovascular Effects, **57:** 70

Bart, A. J. (ed.), *see* Eckenhoff, J. E. (ed.)

Barthwell, D. A., *see* Benzon, H. T.

Bartkowski, R. R.: Recovery from Neuromuscular Block, **58:** 409

Bartkowski, R. R., *see* Horrow, J. C.; *also see* McDonnell, T. E.

Bartolone, R. S., Rao, T. L. K.: Dysrhythmias Following Muscle Relaxants and Digitalis, **58:** 567

Baruh, S., *see* Capistrano-Baruh, E.

Barvais, L., *see* d'Hollander, A. A.

Basch, S., *see* Merin, R. G.

Bashein, G., Cheney, F. W., Jr.,: Carbon Dioxide Detection to Verify Intratracheal Placement of a Breathing Tube, **61:** 782

Bashein, G., *see* Ledray, G. C.

Baskoff, J. D., *see* Crawford, R. D.; *also see* Doblar, D. D.

Basler, A., Röhrborn, G.: Lack of Mutagenic Effects of Halothane in Mammals *In Vivo*, **55:** 143

Basmajian, J. V. (ed.): Biofeedback-Principles and Practice for Clinicians, **52:** 196

Bassell, G. M., Gatha, M. N.: Pulmonary Aspiration Following Antacid Therapy, **52:** 450

Bassell, G. M., *see* Marx, G. F.

Bassett, E. G. (ed.), *see* Beers, R. F., Jr. (ed.)

Basta, S. J., *see* Savarese, J. J.

Bastin, F. N., *see* Plummer, J. L.

Batra, M. S., Bridenbaugh, D. L., Caldwell, C. B., Crawford, R. D., Hecker, B. R., Moore, D. C., Mulroy, M. F., Thompson, G.: Bupivacaine Cardiotoxicity in a Pregnant Patient with Mitral Valve Prolapse: An Example of Improperly Administered Epidural Block, **60:** 170

Batra, M. S., *see* McMahon, D. J.; *also see* Moore, D. C.

Battaglini, J., *see* Porter, E. J.

Bauman, D. I., *see* Waller, J. L.

Bause, G. S.: A Simple Way to Transport Drugs, **59:** 153

Bayes, J.: Asymptomatic Smokers: ASA I or II, **56:** 76

Baysinger, C. L., *see* Dailey, P. A.

Bazaral, M. G.: Volume Ventilation Systems for Infants, **54:** 240

Bazaral, M. G., *see* Brown, D. R.

Beamer, D., *see* Roy, R. C.

Beamer, W. C., *see* Royster, R. L.

Beaupre, P. N., Roizen, M. F., Cahalan, M. K., Alpert, R. A., Cassorla, L., Schiller, N. B.: Hemodynamic and Two-dimensional Transesophageal Echocardiographic Analysis of an Anaphylactic Reaction in a Human, **60:** 482

Beaven, M. A.: Anaphylactoid Reactions to Anesthetic Drugs, **55:** 3

Beckers, H. L.: Use of a Stabilized, Armored Endotracheal Tube in Maxillofacial Surgery, **56:** 309

Beckman, J. J., *see* Lescanic, M. L.; *also see* Miller, E. D., Jr.; Woodside, J. R., Jr.

Beckwith, A. L. J., *see* Plummer, J. L.

Bedford, R. F., *see* Cohen, P. J.; *also see* Donegan, M. F.; Hamill, J. F.; Marshall, W. K.; Perkins, N. A. K.; Perkins-Pearson, N. A. K.; White, P. F.; Woodside, J., Jr.

Bedger, R., *see* Chang, J.-L.
Bedger, R. C., Chang, J-L., Larson, C. E., Bleyaert, A. L.: Airway Device for Ophthalmic and Head and Neck Surgery, **58:** 198
Bedger, R. C., *see* Chang, J.-L.; *also see* Melnick, B.
Bedows, E., Knight, P. R.: Pressure Reversal of Halothane's Antiviral Effect, **59:** 109
Bedows, E., *see* Brabec, M. J.; *also see* Knight, P. R.
Bee, D. E., *see* Flewellen, E. H.
Beeby, D. G., Worthen, M.: Management of Children for Surgery, **61:** 638
Beers, R. F., Jr. (ed.), Bassett, E. G. (ed.): Mechanisms of Pain and Analgesic Compounds, **53:** 90
Behnia, R., Koushanpour, E.: Local *versus* Central Effect of Halothane on Carotid Sinus Baroreceptor Function, **61:** 161
Behrakis, P. K., *see* Higgs, B. D.
Belda, F. J., *see* Frasquet, F. J.
Belghiti, J., *see* Goldfarb, G.
Bell, E. F.: Naloxone Reversal of Diazepam Effects, **53:** 264
Bellows, W. H., Bode, R. H., Jr., Levy, J. H., Foëx, P., Lowenstein, E.: Noninvasive Detection of Periinduction Ischemic Ventricular Dysfunction by Cardiokymography in Humans: Preliminary Experience, **60:** 155
Ben-David, B., Gross, J. B.: Succinylcholine Tachyphylaxis with Isoflurane, **59:** 365
Benedetti, C., Chapman, C. R., Colpitts, Y. H., Chen, A. C.: Effect of Nitrous Oxide Concentration on Event-related Potentials during Painful Tooth Stimulation, **56:** 360
Benedetti, C., *see* Grundy, B. L.
Benford, R. J.: The Heritage of Aviation Medicine, **52:** 104
Benjamin, B.: Atlas of Paediatric Endoscopy, **57:** 254
Bennett, G. M., Stanley, T. H.: Human Cardiovascular Responses to Endotracheal Intubation during Morphine–N_2O and Fentanyl–N_2O Anesthesia, **52:** 520
Bennett, G. M., *see* Loeser, E. A.
Bennett, M. J., Smith, R. W., Fuchs, E.: Sudden Cardiac Arrest during Percutaneous Ultrasonic Nephrostolithotomy, **60:** 245
Bennett, P. B., *see* Parmentier, J. L.
Bennett, R. L., Lee, T. S., Wright, B. D.: Airway-obstructing Supraglottic Edema Following Anesthesia with the Head Positioned in Forced Flexion, **54:** 78
Benson, G. J., *see* Tranquilli, W. J.
Bentley, J. B., Borel, J. D., Vaughan, R. W., Gandolfi, A. J.: Weight, Pseudocholinesterase Activity, and Succinylcholine Requirement, **57:** 48
Bentley, J. B., Hameroff, S. R.: Diffuse Reflex Sympathetic Dystrophy, **53:** 256
Bentley, J. B., Vaughan, R. W., Gandolfi, A. J., Cork, R. C.: Halothane Biotransformation in Obese and Nonobese Patients, **57:** 94
Bentley, J. B., *see* Cork, R. C.
Benumof, J., *see* Katz, J.
Benumof, J. L.: Intermittent Hypoxia and Pulmonary Blood Flow, **58:** 399
Benumof, J. L.: One-Lung Ventilation: Which Lung Should Be PEEPed, **56:** 161
Benumof, J. L., *see* Alfery, D. D.; *also see* Andersen, H. W.; Miller, J. R.; Oden, R.; Pirlo, A. F.; Rogers, S. N.; Spragg, R. G.; Ward, C. F.
Benzon, H. T.: Intracerebral Hemorrhage after Dural Puncture and Epidural Blood Patch: Nonpostural and Noncontinuous Headache, **60:** 258
Benzon, H. T., Linde, H. W., Hawes, D. D., Brunner, E. A.: Stellate Ganglion Block Using Physiologic Saline Solution, **52:** 511
Benzon, H. T., Prasad, Y. S., Barthwell, D. A.: The Value of Fluoroscopy before Performing a Phrenic Nerve Block, **55:** 469
Benzoni, D., *see* Annat, G.
Ben-Zvi, S.: A Possible Cause of Temperature Probe Failure, **53:** 523
Berenstein, A., *see* Capan, L. M.
Berger, J. J., Gravenstein, J. S., Munson, E. S.: Electrode Polarity and Peripheral Nerve Stimulation, **56:** 402
Berger, J. L., *see* Duvaldestin, P.
Berger, J. M., Stirt, J. A.: Aid to Nasotracheal Intubation, **58:** 105
Bergman, N. A.: Reduction in Resting End-Expiratory Position of the Respiratory System with Induction of Anesthesia and Neuromuscular Paralysis, **57:** 14
Bergman, N. A., Tien, Y. K.: Contribution of the Closure of Pulmonary Units to Impaired Oxygenation During Anesthesia, **59:** 395
Bergquist, R. E., Vogelhut, M. M., Modell, J. H., Sloan, S. J., Ruiz, B. C.: Comparison of Ventilatory Patterns in the Treatment of Freshwater Near-drowning in Dogs, **52:** 142
Berkebile, P. E., Narla, R.: An Unusual Complication of Esophageal Obturator Airway (EOA), **57:** 414
Berkenbosch, A., de Goede, J., Olievier, C. N., Quanjer, Ph. H.: Sites of Action of Halothane on Respiratory Pattern and Ventilatory Response to CO_2 in Cats, **57:** 389
Berman, J., Patel, S.: Cimetidine—Unresolved Issues, **60:** 391
Berman, J. A., Furgiuele, J. J., Marx, G. F.: The Einstein Carbon Dioxide Detector, **60:** 614
Berman, L., *see* Stanley, T. H.
Berman, M. L., Kuhnert, L., Phythyon, J. M., Holaday, D. A.: Isoflurane and Enflurane Toxicity in T_3-treated Rats, **58:** 1
Berman, M. L., Kuhnert, L., Phythyon, J. M., Holaday, D. A.: Reply to: Mechanism of Liver Necrosis in Hyperthyroid Rats, **59:** 601
Berman, M. L., *see* Wood, M.
Bernhard, W. N.: Questionable Partial Cure for a Minor Clinical Problem, **59:** 603
Bernhart, J., *see* Jaffe, T. B.
Berntman, L., Welsh, F. A., Harp, J. R.: Cerebral Protective Effect of Low-Grade Hypothermia, **55:** 495
Berry, A. J.: Pulmonary Embolism during Spinal Anesthesia: Angiographic Diagnosis via a Flow-directed Pulmonary Artery Catheter, **57:** 57
Berry, A. J.: Respiratory Support and Renal Function, **55:** 655
Berry, A. J., Geer, R. T., Marshall, C., Wu, W.-H., Zbuzek, V. M., Marshall, B. E.: The Effect of Long-term Controlled Mechanical Ventilation with Positive End-expiratory Pressure on Renal Function in Dogs, **61:** 406
Berry, A. J., Ghani, G. A.: An Unusual Complication Following Cannulation of an External Jugular Vein, **56:** 411
Berry, A. J., Isaacson, I. J., Hunt, D., Kane, M. A.: The Prevalence of Hepatitis B Viral Markers in Anesthesia Personnel, **60:** 6
Berry, A. J., Isaacson, I. J., Kane, M. A.: Reply, **61:** 622
Berry, A. J., Marsh, M. L.: Influence of Anesthetic Technique on Nitroprusside Requirements, **53:** 264
Berry, A. J., Yin, A. S., Hoyt, W. J.: Alteration of Hemoglobin Measurement by Fluorescein, **53:** 67
Berry, A. J., *see* Ghani, G. A.; *also see* Marshall, B. E.
Berry, F. A.: Outpatient Anesthesia Should Not Be Limited to ASA Class I Patients, **60:** 620
Berry, F. A.: The Use of a Stylet in Blind Nasotracheal Intubation, **61:** 469
Bertoni, J. M., *see* Kruczek, M.
Berzina, L., *see* Dauchot, P. J.
Betcher, A. M., *see* Azar, I.
Betta, J., *see* Maneksha, F. R.
Betts, E. K., Nicolson, S. C.: Forensic Anesthesiology, **58:** 115
Betts, E. K., *see* Brzustowicz, R. M.; *also see* Mason, L. J.; Showman, A.
Beukes, H. v. Z., Mostert, J. W.: A New Anatomic Laryngoscope, **57:** 552
Bevan, D. R.: Renal Function in Anaesthesia and Surgery, **53:** 528
Bevan, D. R., *see* Donati, F.; *also see* Ferguson, A.; Higgs, B. D.; Meakin, G.
Bevan, J. C., *see* Meakin, G.
Bhatia, K. N., *see* Hein, H. A. T.
Bialik, O., *see* Rosenberg, H.
Biava, C., *see* Harper, M. H.
Bidwai, A. V., *see* Ghoneim, M. M.
Biebuyck, J. F.: Total Parenteral Nutrition in the Perioperative Period—A Time for Caution, **54:** 360
Biebuyck, J. F., *see* Davis, D. W.; *also see* Vesell, E. S.
Bindslev, L., *see* Hedenstierna, G.
Binkert, E., *see* Mihic, D.

Birch, A. A.: Operating Room Hypoxia, **59:** 365
Bird, T. M., Strunin, L.: Hypotensive Anesthesia for a Patient with Friedreich's Ataxia and Cardiomyopathy, **60:** 317
Bishay, E. G., Echiverri, E., Abu-Zaineh, M., Lee, C.: An Unusual Cause for Airway Obstruction in a Young Healthy Adult, **60:** 610
Bishop, M. J.: Epiglottitis in the Adult, **55:** 701
Bishop, M. J.: Hemodynamic and Gas Exchange Effects of Pancuronium Bromide in Sedated Patients with Respiratory Failure, **60:** 369
Bishop, M. J., Cheney, F. W.: Effects of $P\bar{v}_{O_2}$ and Pulmonary Blood Flow, **58:** 130
Bishop, M. J., Hornbein, T. F.: Prolonged Effect of Succinylcholine after Neostigmine and Pyridostigmine in Renal Failure, **58:** 384
Bishop, M. J., Weymuller, E. A., Jr.: Adult Epiglottitis Revisited, **57:** 545
Bizzarri, D. V., *see* Mustafa, K.
Bjoraker, D. G., *see* Knight, P. R.
Blacher, R. S.: Awareness during Surgery, **61:** 1
Blackburn, C. L., *see* Bovill, J. G.
Blackman, G. L., *see* Mertens, Ph.; *also see* Morgan, D. J.
Blackstock, D.: Advantages of Standing Bellows Ventilators and Low-flow Techniques, **60:** 167
Blain, R., *see* Perreault, L.
Blaise, G., *see* Martin, R.
Blake, B. C., *see* Roberts, R. B.
Blake, G. J., *see* Day, N. S.
Blanchet, F., *see* Marty, J.
Blanck, T. J. J., Fisher, Y. I., Thompson, M., Muldoon, S.: Low Molecular Weight Proteins in Human Malignant Hyperthermic Muscle, **61:** 589
Blass, N. H., Roberts, R. B., Wiley, J. K.: The Case of the Errant Epidural Catheter, **54:** 419
Bledsoe, S. W., *see* Dong, W. K.
Bleyaert, A., *see* Chang, J.-L.
Bleyaert, A. L., *see* Bedger, R. C.; *also see* Chang, J.-L.; MacMurdo, S. D.
Blitt, C. D.: Catheterization Techniques for Invasive Cardiovascular Monitoring, **58:** 111
Blitt, C. D., Carlson, G. L., Rolling, G. D., Hameroff, S. R., Otto, C. W.: A Comparative Evaluation of Pretreatment with Nondepolarizing Neuromuscular Blockers Prior to the Administration of Succinylcholine, **55:** 687
Blitt, C. D., *see* Humphrey, M. J.; *also see* Mylrea, K. C.; Stiffel, P.
Block, S., Rosenblatt, R.: A Halothane-abuse Fatality, **52:** 524
Blogg, C. E., Brown, B. R., Jr.: Editorials Should Elucidate Not Obfuscate, **56:** 407
Bloom, F. E., *see* Way, W. L.
Bloom, M. J., *see* Bagshaw, R. J.
Bloor, B. C., *see* Kapur, P. A.
Boba, A.: Responsibility for Equipment Failure: Consumer *vs.* Manufacturer, **57:** 547
Bodary, A. K., *see* Brown, D. L.
Bode, R. H., Jr., *see* Bellows, W. H.
Bodner, A.: Further Suggestions on Epidural Spread in Pregnancy, **59:** 610
Bogetz, M. S., Katz, J. A.: Recall of Surgery for Major Trauma, **61:** 6
Bogetz, M. S., *see* Weiskopf, R. B.
Boivin, P., *see* Goldfarb, G.
Bolder, P. M., Norton, M. L.: Retinal Hemorrhage Following Anesthesia, **61:** 595
Bolles, R. E., *see* Hill, A. B.; *also see* Jones, R. M.
Bolles, R. S., *see* Knight, P. R.
Bomblet, J. P., *see* d'Hollander, A. A.
Bond, G. C., *see* Fewell, J. E.
Bonica, J. J. (ed.), Ventafridda, V. (ed.): Advances in Pain Research and Therapy, **52:** 104
Bonin, J. D., *see* de Jong, R. H.
Bonneu, J. J., Head, A. S., Artru, A. A., Chadwick, H. S., Colley, P. S.: A New Technique for Applying Scalp Electrodes for Intraoperative EEG Recording, **60:** 523
Bonventre, J. V., *see* Lebowitz, P. W.
Booij, L. H. D. J., *see* Baerts, W. D. M.; *also see* de Lange, J. J.
Boone, F. D., *see* Porter, E. J.
Borel, J. D., *see* Bentley, J. B.
Borg, U., *see* Bunegin, L.
Borland, L. M., Swan, D. M., Leff, S.: Difficult Pediatric Endotracheal Intubation: A New Approach to the Retrograde Technique, **55:** 577
Boros, M.: Pipecurium: A New Neuromuscular Blocking Agent, **58:** 108
Borvine, A., *see* Chayen, M. S.
Boscoe, M. J., *see* de Lange, S.
Bosnjak, Z. J., Kampine, J. P.: Effects of Anesthetics on the SA Node, **58:** 314
Bosnjak, Z. J., Seagard, J. L., Wu, A., Kampine, J. P.: The Effects of Halothane on Sympathetic Ganglionic Transmission, **57:** 473
Bosnjak, Z. J., *see* Bachhuber, S. R.; *also see* Seagard, J. L.; Stowe, D. F.
Bossi, L., *see* Restelli, L.
Bösterling, B., Trevor, A., Trudell, J. R.: Binding of Halothane-free Radicals to Fatty Acids Following UV Irradiation, **56:** 380
Bösterling, B., Trudell, J. R.: Production of 5- and 15-Hydroperoxyeicosatetraenoic Acid from Arachidonic Acid by Halothane-free Radicals Generated by UV-Irradiation, **60:** 209
Boucek, C. D., Tyler, I. L., de la Vega, S. B., McKenzie, R.: Emergency Equipment in the Labor Suite, **61:** 478
Bourdarias, J. P., *see* Fischler, M.
Bourgain, J. L., *see* Rouby, J. J.
Bourin, M., *see* Villers, D.
Bourke, D., *see* Abouleish, E.; *also see* Rosenberg, M.
Bourke, D. L., Lawrence, J.: Another Way to Insert a Macintosh Blade, **59:** 80
Bourke, D. L., Rosenberg, M., Allen, P. D.: Physostigmine: Effectiveness as an Antagonist of Respiratory Depression and Psychomotor Effects Caused by Morphine or Diazepam, **61:** 523
Bourke, D. L., Smith, B. A. C., Erickson, J., Gwartz, B., Lessard, L.: TENS Reduces Halothane Requirements during Hand Surgery, **61:** 769
Bourke, D. L., Wurm, H., Rosenberg, M., Russell, J.: Intraoperative Heat Conservation Using a Reflective Blanket, **60:** 151
Bousseau, D., *see* Coriat, P.
Bove, J. R., *see* Miller, R. D.
Bovill, J. G., Sebel, P. S., Blackburn, C. L., Heykants, J.: The Pharmacokinetics of Alfentanil (R39209): A New Opioid Analgesic, **57:** 439
Bovill, J. G., Sebel, P. S., Blackburn, C. L., Oei-Lim, V., Heykants, J. J.: The Pharmacokinetics of Sufentanil in Surgical Patients, **61:** 502
Bovill, J. G., Sebel, P. S., Stanley, T. H.: Opioid Analgesics in Anesthesia: With Special Reference to Their Use in Cardiovascular Anesthesia, **61:** 731
Bovill, J. G., *see* Knape, J. T. A.; *also see* Sebel, P. S.
Bowe, E. A., *see* Teeple, E.; *also see* Watson, C. B.
Bowers, B., *see* Cucchiara, R. F.
Bowley, C. J., *see* Hill, A. B.
Bowman, W. C.: Pharmacology of the Neuromuscular Function, **57:** 71
Boyce, J. R., Routman, M.: Complex Effects of Isoflurane on Baroreceptor Reflex Compounded by Errors, **61:** 479
Boysen, P. G., *see* Banner, M. J.
Bozeman, P. M., Chandra, P.: Unilateral Analgesia Following Epidural and Subarachnoid Block, **52:** 356
Brabec, M. J., Bedows, E., Davidson, B. A., Knight, P. R.: Effect of General Anesthetics and Pressure on Aerobic Metabolism of Monkey Kidney Cells, **61:** 43
Bradley, J. W., *see* Shulman, M.
Brailsford, J. D., *see* Bull, M. H.
Bramwell, R. S. B., *see* Finucane, B. T.; *also see* Klassen, G. A.
Branthwaite, M. A., *see* Gothard, J. W. W.
Braun, J., *see* Plötz, J.
Braunstein, K. M., *see* Weinberg, S.
Braverman, B., *see* Ivankovich, A. D.; *also see* Shulman, M.
Brebner, J., *see* Shulman, M.; *also see* Shulman, M. S.
Brechner, T., *see* Vredevoe, L. A.
Breckenridge, J., *see* Smith, M.
Breimer, D. D., *see* Burm, A. G.
Brewster, D. C., *see* Jeffrey, C. C.
Bridenbaugh, D. L., *see* Batra, M. S.

Bridenbaugh, P. O., *see* Cousins, M. J.; *also see* Coyle, D. E.
Brinkløv, M. M., *see* Stokke, D. B.
Briscoe, J. R., *see* Durant, N. N.
Britt, B. A. (ed.): Malignant Hyperthermia, **54:** 357
Britt, M. R., *see* Garibaldi, R. A.
Brizgys, R. V., Hicks, H. C.: Massive Occult Retroperitoneal Hemorrhage during Hip Surgery, **58:** 473
Brizgys, R. V., *see* Kotelko, D. M.
Brockschnieder, B., *see* Sonntag, H.
Brock-Utne, J. G., Downing, J. W., Dimopoulos, G. E., Rubin, J., Moshal, M. G.: Effect of Domperidone on Lower Esophageal Sphincter Tone in Late Pregnancy, **52:** 321
Brock-Utne, J. G., *see* Downing, J. W.; *also see* Sarnquist, F. H.
Broderson, H., *see* Spaulding, B. C.
Brodsky, J., *see* Wyrobek, A. J.
Brodsky, J. B.: Why Routinely Pretreat, **56:** 488
Brodsky, J. B., Baden, J. M., Serra, M., Kundomal, Y.: Nitrous Oxide Inactivates Methionine Synthetase Activity in Rat Testis, **61:** 66
Brodsky, J. B., Welti, R. S., Mark, J. BD: Thoracoscopy for the Retrieval of Intrathoracic Foreign Bodies, **54:** 91
Brodsky, J. B., Wyner, J., Ehrenwerth, J., Merrell, R. C., Cohn, R. B.: One-lung Anesthesia in Morbidly Obese Patients, **57:** 132
Brodsky, J. B., *see* Ahlering, J. R.
Broere, G., *see* Baerts, W. D. M.
Bromage, P. M.: Reply to: Duplication and Fragmentation in Publications, **57:** 550
Bromage, P. R., Camporesi, E. M., Durant, P. A., Nielsen, C. H.: Epinephrine and Epidural Morphine, **58:** 257
Bromage, P. R., Camporesi, E. M., Durant, P. A. C., Nielsen, C. H.: Rostral Spread of Epidural Morphine, **56:** 431
Bromage, P. R., *see* Fagraeus, L.; *also see* Klassen, G. A.
Bromley, J. J., Moorthy, S. S.: Acute Angulation of a Pulmonary Artery Catheter, **59:** 367
Bronner, G., *see* Otteni, J. C.
Brooks, T. D., Paulus, D. A., Winkle, W. E.: Infrared Heat Lamps Interfere with Pulse Oximeters, **61:** 630
Brotherton, W. P., Matteo, R. S.: Pharmacokinetics and Pharmacodynamics of Metocurine in Humans with and without Renal Failure, **55:** 273
Brotherton, W. P., *see* Matteo, R. S.
Brown, A. C. D., *see* Kothary, S. P.
Brown, B. R., Jr.: Gull Harbour Toxicity Symposium, **58:** 208
Brown, B. R., Jr.: Pharmacogenetics and the Halothane Hepatitis Mystery, **55:** 93
Brown, B. R., Jr.: Tribute to a Little-known Pioneer, **61:** 349
Brown, B. R., Jr., *see* Blogg, C. E.; *also see* Lind, R. C.; Maiorino, R. M.
Brown, B. R., Jr. (ed.): Anesthesia and the Patient with Heart Disease, **53:** 358
Brown, C. Q.: Cordis Introducers: CVP Measurement with Fluid Infusion, **55:** 485
Brown, C. Q.: Radial Artery Catheter Replacement, **55:** 333
Brown, C. Q., Canada, E. D., Graney, W. F.: Failure of Bain Circuit Breathing System, **55:** 716
Brown, C. Q., Watson, C. B.: Carotid Sinus Syndrome: Intraoperative Management Facilitated by Temporary Transvenous Demand Pacing, **56:** 151
Brown, C. R., *see* Sarnquist, F. H.
Brown, D. L., Bodary, A. K., Kirby, R. R.: Anesthetic Management of Pulmonary Thromboendarterectomy, **61:** 197
Brown, D. L., Cadena, R.: Intravenous Fluid Containers, **58:** 301
Brown D. L., Davis, R. F.: A Simple Device for Oxygen Insufflation with Continuous Positive Airway Pressure during One-lung Ventilation, **61:** 481
Brown, D. L., Greenberg, D. J.: A Simple Device for Monitoring the Esophageal Electrocardiogram, **59:** 483
Brown, D. L., Parmley, C. L.: Second-degree Atrioventricular Block after Methyl Methacrylate, **56:** 391
Brown, D. R., Bazaral, M. G., Nath, P. H., Delaney, D. J.: Canine Left Ventricular Volume Response to Mechanical Ventilation with PEEP, **54:** 409
Brown, J., *see* Walts, L. F.
Brown, J. H., *see* Klineberg, P. L.
Brown, J. T., *see* Kafer, E. R.
Brown, J. W., *see* Mahomed, Y.
Brown, M., Gordon, L. H., Brown, O. W.: Superficial Temporal Artery Cannulation in Adults, **61:** 114
Brown, M., Liberthson, R. R., Ali, H. H., Lowenstein, E.: Perioperative Anesthetic Management of a Patient with Long Q-T Syndrome (LQTS), **55:** 586
Brown, O. W., *see* Brown, M.
Brown, R. H., *see* Grundy, B. L.
Brown, T. C. K., Fisk, G. C.: Anaesthesia for Children, **53:** 358
Brown, W. U., Jr., *see* Datta, S.
Brownell, A. K. W., Paasuke, R. T., Elash, A., Fowlow, S. B., Seagram, C. G. F., Diewold, R. J., Friesen, C.: Malignant Hyperthermia in Duchenne Muscular Dystrophy, **58:** 180
Bruce, D. L.: Functional Toxicity of Anesthesia, **54:** 442
Bruce, D. L.: MAC Values of Mixtures, **59:** 609
Bruce, D. L., Downs, J. B., Kulkarni, P. S., Capan, L. M.: Precurarization Inhibits Maximal Ventilatory Effort, **61:** 618
Bruce, D. L., Linde, H. W.: Vaporization of Mixed Anesthetic Liquids, **60:** 342
Bruce, D. L., *see* Capan, L. M.; *also see* Kushins, L.; Uhl, R. R.
Bruce, S. L., *see* Morishima, H. O.
Bruggeman, G. E., *see* Roberts, R. B.
Brummitt, W. M., *see* Steward, D. J.
Brun-Buisson, C., *see* Lemaire, F.
Brunner, E. A., *see* Ahmad, S.; *also see* Benzon, H. T.; Cheng, S.-C.; Ovassapian, A.
Brunner, E. A. (ed.), *see* Eckenhoff, J. E. (ed.)
Brunner, J. A., III, *see* Clark, R. B.
Bruss, R. D., *see* Butler, J. M.
Brzustowicz, R. M., Nelson, D. A., Betts, E. K., Rosenberry, K. R., Swedlow, D. B.: Efficacy of Oral Premedication for Pediatric Outpatient Surgery, **60:** 475
Buchheit, W. A., *see* Shupak, R. C.
Buckley, J. J., *see* Lo, J. N.
Buffington, C. W., Ivey, T. D.: Coronary Artery Spasm during General Anesthesia, **55:** 466
Buffington, C. W., *see* Rooke, G. A.
Bull, B. S., *see* Bull, M. H.
Bull, J. M., *see* Lees, D. E.
Bull, M. H., Brailsford, J. D., Bull, B. S.: Erythrocyte Membrane Expansion Due to the Volatile Anesthetics, the 1-Alkanols, and Benzyl Alcohol, **57:** 399
Bumgarner, J., *see* Prough, D. S.
Bunegin, L., Albin, M. S.: Balloon Catheter Increases Air Capture, **57:** 66
Bunegin, L., Albin, M. S., Helsel, P. E., Hoffman, A., Hung, T.-K.: Positioning the Right Atrial Catheter: A Model for Reappraisal, **55:** 343
Bunegin, L., Smith, R. B., Sjostrand, U. H., Albin, M. S., Babinski, M. F., Helsel, P., Borg, U.: Regional Organ Blood Flow during High-frequency Positive-pressure Ventilation (HFPPV) and Intermittent Positive-pressure Ventilation (IPPV), **61:** 416
Bunegin, L., *see* Smith, S. L.
Bunney, W. E., *see* Dubois, M.
Burch, P. G., McLeskey, C. H.: Anesthesia for Patients with Insulinoma Treated with Oral Diazoxide, **55:** 472
Burch, P. G., Stanski, D. R.: Metabolism and Protein Binding of Thiopental, **58:** 146
Burch, P. G., *see* Hudson, R. J.
Burk, W., *see* Watson, C. B.
Burke, J. F. (ed.), *see* Mathieu, A. (ed.)
Burkett, L., *see* Muravchick, S.
Burm, A. G., van Kleef, J. W., Gladines, M. P., Spierdijk, J., Breimer, D. D.: Plasma Concentrations of Lidocaine and Bupivacaine after Subarachnoid Administration, **59:** 191
Burm, A. G. L., van Kleef, J. W., de Boer, A. G.: Gas Chromatographic Determination of Bupivacaine in Plasma Using a Support Coated Open Tubular Column and a Nitrogen-selective Detector, **57:** 527
Burnett, L. L., *see* Moore, D. C.
Burns, B., *see* Stene, J. K.
Burns, J. W.: Hazard of Disposable Diaphragm Domes, **52:** 285

Burstein, A., Vanga, C.: Predicting Painful Venipunctures, **58:** 487
Busard, T. R.: Filth, Filters, Fish and the Common Man, **55:** 608
Busch, M. T., *see* Knight, P. R.
Buschi, A. J., *see* Perkins, N. A. K.
Bush, W. H., *see* Moore, D. C.
Bushnell, L. S., *see* Hastings, P. R.
Bussell, J., *see* Sethna, D.
Butler, B. D., *see* Hills, B. A.
Butler, J., *see* Hirshman, C. A.
Butler, J. M., Kazmierowski, J. A., Bruss, R. D., Hirshman, C. A.: An Unusual Adverse Drug Reaction to Thiopental, **57:** 51
Butz, R. F., *see* Kafer, E. R.
Buzello, W., Krieg, N., Kuhls, E., Schlickewei, A.: Modification of Pancuronium-Induced Non-depolarizing Neuromuscular Block by Succinylcholine in Anesthetized Humans, **59:** 583
Byer, D. E., Gould, A. B., Jr.: Development of Tolerance to Ketamine in an Infant Undergoing Repeated Anesthesia, **54:** 255
Byles, P. H., *see* Chilcoat, R. T.
Byrick, R. J., Janssen, E. G.: Respiratory Waveform and Rebreathing in T-Piece Circuits: A Comparison of Enflurane and Halothane Waveforms, **53:** 371
Byrick, R. J., Kolton, M., Hart, J. T., Forbath, P. G.: Hypoxemia Following Cardiopulmonary Bypass, **53:** 172
Byrick, R. J., *see* Devitt, J. H.; *also see* Keenan, R. L.; Noble, W. H.

C

Caccomo, A.: A Simple Device for Filtering Mouth-to-Mouth Resuscitation, **61:** 638
Cadena, R., *see* Brown, D. L.
Caffo, A. L., *see* Abouleish, E.
Cahalan, M. K., Johnson, B. H., Eger, E. I., II: Relationship of Concentrations of Halothane and Enflurane to Their Metabolism and Elimination in Man, **54:** 3
Cahalan, M. K., Johnson, B. H., Eger, E. I., II, Sheiner, L. B., Richardson, C. A., Varner, J. K., Severinghaus, J. W.: A Noninvasive *In Vivo* Method of Assessing the Kinetics of Halothane Metabolism in Humans, **57:** 298
Cahalan, M. K., *see* Beaupre, P. N.; *also see* Morris, R. B.
Cail, W. S., *see* Perkins, N. A. K.
Cain, J., *see* Shulman, M. S.
Cairns, A. M., *see* Fink, R. B.
Caironi, C., *see* Restelli, L.
Calder, C. S., *see* Dyck, P. J.
Caldera, D., *see* Cullen, D. J.
Caldwell, C., Crawford, R., Sinclair, I.: Hypothermia after Cardiopulmonary Bypass in Man, **55:** 86
Caldwell, C. B., Gross, J. B.: Physostigmine Reversal of Midazolam-induced Sedation, **57:** 125
Caldwell, C. B., *see* Batra, M. S.; *also see* Gross, J. B.; *also see* Hagerdal, M.
Calkins, D. F., *see* Fink, B. R.
Calkins, J., *see* Jung, D.
Calkins, J. M., *see* Conahan, T. J.; *also see* Hameroff, S. R.; Mylrea, K. C.; Otto, C. W.
Calvey, T. N., Williams, N. E.: Principles and Practice of Pharmacology for Anesthetics, **60:** 623
Campbell, F. W., Goldstein, M. F., Atkins, P. C.: Management of the Patient with Protamine Hypersensitivity for Cardiac Surgery, **61:** 761
Campbell, F. W., Schwartz, A. J.: Pulmonary Artery Catheter Malfunction, **60:** 513
Campbell, I. T., Ellis, F. R., Evans, R. T.: Metabolic Rate and Blood Hormone and Metabolite Levels of Individuals Susceptible to Malignant Hyperpyrexia at Rest and in Response to Food and Mild Exercise, **55:** 46
Campbell, J. N., *see* Toung, T.
Campkin, T. V.: Air Embolism: Placement of Central Venous Catheters, **56:** 406
Camporesi, E. M., *see* Bromage, P. R.
Canada, E. D., *see* Brown, C. Q.
Canalis, R. F., *see* Baraka, A.
Cane, R. D., Harrison, R. A., Shapiro, B. A., Kavanaugh, J.: The Spectrophotometric Absorbance of Intralipid®, **53:** 53
Canfell, C., *see* Fahey, M. R.; *also see* Fisher, D. M.
Cannon, B. W., Meshier, W. T.: Extremity Amputation Following Radial Artery Cannulation in a Patient with Hyperlipoproteinemia Type V, **56:** 222
Canup, C., *see* Sarnquist, F. H.
Capan, L. M., Bruce, D. L., Patel, K. P., Turndorf, H.: Succinylcholine-induced Postoperative Sore Throat, **59:** 202
Capan, L. M., Lardizabal, S., Sinha, K., Ashok, U., Berenstein, A., Turndorf, H.: Pulmonary Embolism during Arterial Embolization with Silicone Fluids, **58:** 569
Capan, L. M., *see* Bruce, D. L.
Capistrano-Baruh, E., Wenig, B., Steinberg, L., Stegnjajic, A., Baruh, S.: Laryngeal Web: A Cause of Difficult Endotracheal Intubation, **57:** 123
Capuano, C., *see* Wolf, G. L.
Cardona, I., Jr., *see* Yacoub, O. F.
Carel, W. D., *see* Gross, J. B.
Carlet, J., *see* Lemaire, F.
Carlon, G. C., Ray, C., Jr., Klain, M., McCormack, P. M.: High-frequency Positive-pressure Ventilation in Management of a Patient with Bronchopleural Fistula, **52:** 160
Carlon, G. C., *see* Howland, W. S.
Carlson, C. G., *see* Corke, B. C.
Carlson, G. L., *see* Blitt, C. D.
Carlsson, C., Chapman, A. G.: The Effect of Diazepam on the Cerebral Metabolic State in Rats and Its Interaction with Nitrous Oxide, **54:** 488
Carlsson, C., Smith, D. S., Keykhah, M. M., Englebach, I., Harp, J. R.: The Effects of High-Dose Fentanyl on Cerebral Circulation and Metabolism in Rats, **57:** 375
Carmichael, F. J.: Mechanism of Liver Necrosis in Hyperthyroid Rats, **59:** 601
Carpentier, Y. A., *see* Askanazi, J.
Carr, B., *see* Sarnquist, F. H.
Carrie, L. E. S., Simpson, P. J.: Understanding Anaesthesia, **59:** 492
Carron, H., *see* Rowlingson, J. C.
Carter, J. G., Sokoll, M. D., Gergis, S. D.: Effect of Spinal Cord Transection on Neuromuscular Function in the Rat, **55:** 542
Carter, S. R., *see* Sprague, D. H.
Cartmill, T. B., *see* Klineberg, P. L.
Cartwright-Lee, I., *see* Hirshman, C. A.
Cassady, J. F., Patel, R. I., Epstein, B. S.: Calculations for Predicting Blood Transfusion Needs, **59:** 491
Casson, H., *see* Vaughn, J.
Cassorla, L., Katz, J. A.: Management of Cardiac Herniation after Intrapericardial Pneumonectomy, **60:** 362
Cassorla, L., *see* Beaupre, P. N.
Castagnoli, K., *see* Fahey, M. R.
Castagnoli, N., Jr., *see* Cronnelly, R.
Castaños, C. C.: Origin of the Balloon Technique as an Epidural-space Indicator, **52:** 193
Catchlove, R. F. H., Germain, M.: Unilateral Cervical Epidural, **60:** 147
Cazalaa, J. A., *see* Stanley, T. H.
Cerullo, L., *see* Ovassapian, A.
Cervenko, F. W., *see* Milne, B.
Chadwick, H. S., *see* Artru, A. A.; *also see* Bonneu, J. J.; Todd, M. M.
Chanarin, I., *see* Skacel, P. O.
Chander, S.: Air Volume in Endotracheal Tube Cuffs, **53:** 437
Chandra, P.: Severe Skin Damage from EKG Electrodes, **56:** 157
Chandra, P., *see* Bozeman, P. M.; *also see* Detmer, M. D.
Chang, J.-L., Bleyaert, A., Bedger, R.: Unilateral Pneumothorax Following Jet Ventilation during General Anesthesia, **53:** 244
Chang, J.-L., Gonzalez-Abola, E., Larson, C. E., Lobes, L.: Brain Stem Anesthesia Following Retrobulbar Block, **61:** 789
Chang, J.-L., Larson, C. E., Bedger, R. C., Bleyaert, A. L.: An Unusual Malfunction of an Anesthetic Machine, **52:** 446
Chang, J.-L., *see* Melnick, B.; *also see* Bedger, R. C.
Chapin, J. C., Kushins, L. G., Munson, E. S., Schick, L. M.: Lidocaine, Bupivacaine, Etidocaine, and Epinephrine-induced Arrhythmias during Halothane Anesthesia in Dogs, **52:** 23
Chapin, J. C., *see* Schick, L. M.
Chapin, J. W., Hurlbert, B. J., Scheer, K.: Hemorrhage and Cardiac Arrest during Laparoscopic Tubal Ligation, **53:** 342
Chapin, J. W., Lou, C. G., Wingard, D. W.:

Asystole after Intravenous Dantrolene Sodium in Pigs, **54:** 527
Chapin, J. W., Moravec, M.: Faulty Temperature Probe, **52:** 187
Chapin, J. W., *see* Ganfield, R. A.; *also see* Peters, K. R.
Chapman, A. G., *see* Carlsson, C.
Chapman, C. R., Schimek, F., Gehrig, J. D., Gerlach, R., Colpitts, Y. H.: Effects of N_2O, TES, and their Combination on ERPS, **58:** 250
Chapman, C. R., *see* Benedetti, C.; *also see* Grundy, B. L.
Charles, P., *see* Rendell-Baker, L.
Charuzi, I., *see* Greenberg, L.
Chasnov, S., *see* Tranquilli, W. J.
Chauvelot-Moachon, L., *see* Cohen, S. E.
Chaux, F., *see* Pandele, G.
Chayen, M. S., Rudick, V., Borvine, A.: Pain Control with Epidural Injection of Morphine, **53:** 338
Chen, A. C., *see* Benedetti, C.
Chen, L., *see* Domino, K. B.
Chen, R. Y. Z., Matteo, R. S., Fan, F.-C., Schuessler, G. B., Chien, S.: Resetting a Baroreflex Sensitivity after Induced Hypotension, **56:** 29
Chen, R. Y. Z., *see* Fan, F.-C.
Cheney, F. W., Colley, P. S.: The Effect of Cardiac Output on Arterial Blood Oxygenation, **52:** 496
Cheney, F. W., *see* Bishop, M. J.; *also see* McLeskey, C. H.
Cheney, F. W., Jr.,, *see* Bashein, G.; *also see* Colley, P. S.
Cheng, S.-C., Brunner, E. A.: Effects of Anesthetic Agents on Synaptosomal GABA Disposal, **55:** 34
Cheng, S.-C., Brunner, E. A.: Inhibition of GABA Metabolism in Rat Brain Slices by Halothane, **55:** 26
Cheng, S.-C., Brunner, E. A.: Inhibition of GABA Metabolism in Rat Brain Synaptosomes by Midazolam (RO-21-3981), **55:** 41
Chester, M. H.: Tracheal Tube Guide to Facilitate Nasotracheal Intubation, **60:** 522
Chestnut, J. S., *see* Lee, D. D.
Cheung, A., *see* Baden, J. M.
Chien, S., *see* Chen, R. Y. Z.; *also see* Fan, F.-C.
Chikasue, F., *see* Morio, M.
Chilcoat, R. T., Byles, P. H., Kellman, R. M.: The Hazard of Nitrous Oxide during Laser Endoscopic Surgery, **59:** 258, 1983
Childres, W. F.: Malfunction of Ohio Modulus® Anesthesia Machine, **56:** 330
Childres, W. F.: New Method for Fiberoptic Endotracheal Intubation of Anesthetized Patients, **55:** 595
Chinthagada, M., *see* Gorski, D. W.
Chipps, B. E., *see* Robotham, J. L.
Choi, S. D., *see* Spaulding, B. C.
Chræmmer-Jørgensen, B., *see* Howardy-Hansen, P.; *also see* Viby-Mogensen, J.
Christian, C. M., II: Cannulation of the Internal Jugular Vein: Variation on a Theme, **55:** 335
Christian, C. M., II: Fourth Annual Meeting of the Society of Cardiovascular Anesthesiologists, **58:** 491
Christian, C. M., II, Waller, J. L., Moldenhauer, C. C.: Postoperative Rigidity Following Fentanyl Anesthesia, **58:** 275
Chung, D. C., *see* Lam, A. M.
Ciobanu, M., Meyer, J. A.: Ventilator Hazard Revealed, **52:** 186
Clapham, M., *see* Watson, C. B.
Clark, D. L., *see* Moore, R. A.
Clark, H., *see* Wilkinson, C.
Clark, P., *see* Wolf, S.
Clark, R. B., Brunner, J. A., III: Dopamine for the Treatment of Spinal Hypotension during Cesarean Section, **53:** 514
Clark, R. B., Seifen, A. B., Jordan, R. M., Walts, L. F., Miller, J.: Continuous Insulin Infusion is Preferred Method for Managing Diabetics, **56:** 332
Clark, W. C., Yang, J. C.: The Consequences of Not Applying Sensory Decision Theory, **53:** 265
Clark, W. C., *see* Yang, J. C.
Clausen, J., *see* Dueck, R.
Clement, J. L., *see* Knill, R. L.; *also see* Lam, A. M.
Clergue, F., Derenne, J. Ph.: Reply, **61:** 627
Clergue, F., Ecoffey, C., Derenne, J. P., Viars, P.: Oxygen Drive to Breathing during Halothane Anesthesia: Effects of Almitrine Bismesilate, **60:** 125
Clergue, F., Montembault, C., Despierres, O., Ghesquiere, F., Harari, A., Viars, P.: Respiratory Effects of Intrathecal Morphine after Upper Abdominal Surgery, **61:** 677
Clofine, R., *see* Rosenberg, H.
Coe, V., *see* White, P. F.
Cohen, C., *see* Abramowitz, H. B.
Cohen, E. N.: Anesthetic Exposure in the Workplace, **53:** 526
Cohen, E. N., *see* Edmunds, H. N.; *also see* Hong, K.; Linde, H. W.; Sachdev, K.; Wyrobek, A. J.
Cohen, J. A.: Activated Coagulation Time Method for Control of Heparin is Reliable during Cardiopulmonary Bypass, **60:** 121
Cohen, M., *see* Dubois, M.
Cohen, P. J.: Of Coliforms and Cancer, **52:** 6
Cohen, P. J.: To Dream the Impossible Dream, **55:** 491
Cohen, P. J., Bedford, R. F.: Aspirin and Catheter Size, **52:** 282
Cohen, P. J., *see* Detmer, M. D.; *also see* Knight, P. R.
Cohen, R., *see* Lomessy, A.
Cohen, S., Liu, K. H., Marx, G. F.: Upper Airway Edema—An Anaphylactoid Reaction to Succinylcholine, **56:** 467
Cohen, S., *see* Loubser, P.
Cohen, S. E.: Anesthesia for Cesarean Section in Achondroplastic Dwarfs, **52:** 264
Cohen, S. E., Jasson, J., Talafre, M.-L., Chauvelot-Moachon, L., Barrier, G.: Does Metoclopramide Decrease the Volume of Gastric Contents in Patients Undergoing Cesarean Section, **61:** 604
Cohen, S. E., Rothblatt, A. J., Albright, G. A.: Early Respiratory Depression with Epidural Narcotic and Intravenous Droperidol, **59:** 569
Cohen, S. E., Woods, W. A.: Epidural Morphine in the Postcesarean Patient, **58:** 500
Cohen, S. E., Woods, W. A., Wyner, J.: Antiemetic Efficacy of Droperidol and Metoclopramide, **60:** 67
Cohen, S. E., *see* Woods, W. A.; *also see* Wyner, J.
Cohn, R. B., *see* Brodsky, J. B.
Colchen, A., *see* Vourc'h, G.
Cole, A. F. D., Rolbin, S. H.: A Technique for Rapid Catheterization of the Umbilical Artery, **53:** 254
Cole, P. V., Vesey, C. J.: Antagonism of Nitroprusside Effects by Cyanide May Not Be Clinically Relevant, **59:** 159
Cole, R. P., *see* Rosenbaum, S. H.
Coleprate, P., *see* Siegel, M.
Colley, P. S., Cheney, F. W., Jr., Hlastala, M. P.: Pulmonary Gas Exchange Effects of Nitroglycerin in Canine Edematous Lungs, **55:** 114
Colley, P. S., Heavner, J. E.: Blood Levels of Bupivacaine after Injection into the Scalp with and without Epinephrine, **54:** 81
Colley, P. S., *see* Artru, A. A.; *also see* Bonneu, J. J.; Cheney, F. W.; Johnson, E. S.; Martin, R. W.
Collier, C.: Collapse after Epidural Injection Following Inadvertant Dural Perforation, **57:** 427
Collier, C.: Epinephrine and Epidural Narcotics, **60:** 168
Collier, C. B., Muravchick, S.: The Recording of Succinylcholine-induced Fasciculations, **56:** 409
Collier, H. W., Engelking, K.: Todd's Paralysis Following an Interscalene Block, **61:** 342
Collins, J. G., Kitahata, L. M., Matsumoto, M., Homma, E., Suzukawa, M.: Spinally Administered Epinephrine Suppresses Noxiously Evoked Activity of WDR Neurons in the Dorsal Horn of the Spinal Cord, **60:** 269
Collins, J. G., *see* Homma, E.; *also see* Kitahata, L. M.; Namiki, A.; Saito, H.; Suzukawa, M.
Collins, J. G. (ed.), *see* Kitihata, L. M. (ed.)
Collins, P., *see* Harper, M. H.; *also see* Koblin, D. D.
Colohan, A. R., *see* Hamill, J. F.; *also see* White, P. F.
Colonna-Romano, P., *see* Goldberg, M.
Colpitts, Y. H., *see* Benedetti, C.; *also see* Chapman, C. R.
Comerford, J., *see* Cunningham, A. J.
Comm, G., Rendell-Baker, L.: Back Pressure Check Valves a Hazard, **56:** 327

Conahan, T. J., Barberii, J. K., Calkins, J. M.: Valve Competence in Pulmonary Artery Catheter Introducers, **58:** 189

Conahan, T. J., III: Cardiac Anesthesia, **57:** 433

Condon, B. F., *see* Doblar, D. D.

Conklin, C., *see* Sethna, D.

Conklin, K. A.: Should Precurarization be Used in Obstetrics, **60:** 384

Conklin, K. A., Lau, S.-S.: Enflurane Effects on Cell Division and Macromolecular Synthesis in *Tetrahymena pyriformis*: Comparison with Halothane, **53:** 287

Conklin, K. A., Lau, S.-S.: Halothane Effects on ATP Content and Uridine Uptake and Phosphorylation in *Tetrahymena pyriformis*, **61:** 78

Conklin, K. A., Ziadlou-Rad, F.: Buffering Capacity of Citrate Antacids, **58:** 391

Conklin, K. A., Ziadlou-Rad, F.: Bupivacaine Cardiotoxicity in a Pregnant Patient with Mitral Valve Prolapse, **58:** 596

Conklin, K. A., Ziadlourad, F.: Bupivacaine: Cardiotoxicity or Anesthetic Technique, **61:** 625

Conklin, K. A., *see* Thompson, J.

Conlay, L., *see* Murphy, A. L.

Conney, A. H., *see* Pantuck, E. J.

Consigny, P. M., *see* Verrier, E. D.

Cook, F. J., *see* Siler, J. N.

Cook, T. G., deSanctis, C. A., Plaza, J. A., Sawyer, D. D.: Stellate Ganglion Block for Sudden Profound Hearing Loss, **54:** 421

Cookinham, F. T., *see* Moon, G. J.

Coombs, D. W.: Mechanism of Epidural Lidocaine Reversal of Tachyphylaxis to Epidural Morphine Analgesia, **59:** 486

Coombs, D. W., Saunders, R. L., Gaylor, M., Pageau, M. G.: Epidural Narcotic Infusion Reservoir: Implantation Technique and Efficacy, **56:** 469

Coombs, D. W., *see* Hodgkinson, R.

Cooper, J. B., Joseph, D. M.: A New Value for the Solubility of Nitrous Oxide in Olive Oil, **55:** 720

Cooper, J. B., Long, C. D., Newbower, R. S., Philip, J. H.: Critical Incidents Associated with Intraoperative Exchanges of Anesthesia Personnel, **56:** 456

Cooper, J. B., Newbower, R. S., Kitz, R. J.: An Analysis of Major Errors and Equipment Failures in Anesthesia Management: Considerations for Prevention and Detection, **60:** 34

Cooper, P. R.: Head Injury, **59:** 268

Cooperman, L. H., *see* Orkin, F. K.

Copeland, C. S., *see* Kellett, P. B.

Corbascio, A. N. (ed.), *see* Smith, N. T. (ed.)

Cordell, A. R., *see* Johnston, W. E.

Coriat, P., Daloz, M., Bousseau, D., Fusciardi, J., Echter, E., Viars, P.: Prevention of Intraoperative Myocardial Ischemia during Noncardiac Surgery with Intravenous Nitroglycerin, **61:** 193

Cork, R. C., Kryc, J. J., Vaughan, R. W.: Ultrasonic Localization of the Lumbar Epidural Space, **52:** 513

Cork, R. C., Vaughan, R. W., Bentley, J. B.: General Anesthesia for Morbidly Obese Patients—An Examination of Postoperative Outcomes, **54:** 310

Cork, R. C., *see* Bentley, J. B.; *also see* Stiffel, P.; Vaughan, R. W.

Corke, B. C., Carlson, C. G., Dettbarn, W-D.: The Influence of 2-Chloroprocaine on the Subsequent Analgesic Potency of Bupivacaine, **60:** 25

Corke, B. C., *see* Datta, S.

Correll, J. W., *see* Fan, F.-C.

Corssen, G., *see* Yanagida, H.

Cory, P. C., Mulroy, M. F.: Postoperative Respiratory Failure Following Intercostal Block, **54:** 418

Cosmi, E. V., *see* Saitto, C.

Costin, M., *see* Marx, G. F.

Coté, C. J., Goudsouzian, N. G., Liu, L. M. P., Dedrick, D. F., Szyfelbein, S. K.: Assessment of Risk Factors Related to the Acid Aspiration Syndrome In Pediatric Patients—Gastric *p*H and Residual Volume, **56:** 70

Coté, C. J., Goudsouzian, N. G., Liu, L. M. P., Dedrick, D. F., Rosow, C. E.: The Dose Response of Intravenous Thiopental for the Induction of General Anesthesia in Unpremedicated Children, **55:** 703

Coté, C. J., Petkau, A. J., Ryan, J. F., Welch, J. P.: Wasted Ventilation Measured In Vitro with Eight Anesthetic Circuits with and without Inline Humidification, **59:** 442

Coté, C. J., *see* Goudsouzian, N. G.; *also see* Liu, L. M. P.

Cote, M. E., *see* Lebowitz, P. W.

Cotten, S., *see* Patel, C.

Cottrell, J. E., Trundoff, H.: Anesthesia and Neurosurgery, **53:** 91

Cottrell, J. E., *see* Estilo, A. E.; *also see* Giffin, J. P.; Hartung, J.; O'Neill, J. E.; Weinberg, S.

Couper, J. L., *see* Lombard, T. P.

Cousins, M. J., Bridenbaugh, P. O.: Neural Blockade in Clinical Anesthesia and Management of Pain, **55:** 490

Cousins, M. J., Gourlay, G. K., Hall, P. de la M., Knights, K.: Pharmacogenetics and Halothane Hepatitis, **56:** 484

Cousins, M. J., Mather, L. E.: Intrathecal and Epidural Administration of Opioids, **61:** 276

Cousins, M. J., *see* Glynn, C. J.; *also see* Gourlay, G. K.; Plummer, J. L.; Seow, L. T.

Couture, J., *see* Marty, J.

Coveler, L. A., *see* Yacoub, O. F.

Covino, B. G.: Ultralong-acting Local Anesthetic Agents, **54:** 263

Covino, B. G., *see* Feldman, H. S.; *also see* Gissen, A. J.; Morishima, H. O.

Cowan, R. I., *see* Youngstrom, P. C.

Cowley, R. A. (ed.): Pathophysiology of Shock, Anoxia, and Ischemia, **58:** 112

Cowley, R. A. (ed.), Dunham, C. M. (ed.): Shock Trauma/Critical Care Manual: Initial Assessment and Management, **58:** 112

Cowley, R. A. (ed.), Trump, B. F. (ed.): Pathophysiology of Shock, Anoxia, and Ischemia, **58:** 112

Cox, R. H., *see* Bagshaw, R. J.

Coyle, D. E., Denson, D. D., Thompson, G. A., Myers, J. A., Arthur, G. R., Bridenbaugh, P. O.: The Influence of Lactic Acid on the Serum Protein Binding of Bupivacaine: Species Differences, **61:** 127

Coyle, D. E., *see* Ford, D. J.

Cozine, K., Rosenbaum, L. M., Askanazi, J., Rosenbaum, S. H.: Laser-induced Endotracheal Tube Fire, **55:** 583

Crane, A. M., *see* Crosby, G.

Craver, J. M., *see* Waller, J. L.

Crawford, J. S.: A Challenge to the Use of *d*-Tubocurarine Prior to Succinylcholine in Obstetrics, **57:** 549

Crawford, J. S.: Collapse after Epidural Injection Following Inadvertent Dural Perforation, **59:** 78

Crawford, J. S.: Intrathecal Morphine in Obstetrics, **55:** 487

Crawford, R. D., Baskoff, J. D.: Fentanyl-associated Delirium in Man, **53:** 168

Crawford, R. D., *see* Batra, M. S.; *also see* Caldwell, C.; Karis, J. H.; Moore, D. C.

Cromwell, T. H.: Methylmethacrylate Airway Obstruction, **52:** 89

Cronnelly, R., Fisher, D. M., Miller, R. D.: Reply to: More about Pharmacokinetics of Vecuronium and Pancuronium, **60:** 509

Cronnelly, R., Fisher, D. M., Miller, R. D., Gencarelli, P., Nguyen-Gruenke, L., Castagnoli, N., Jr.: Kinetics and Dynamics of Vecuronium and Pancuronium, **58:** 405

Cronnelly, R., Morris, R. B., Miller, R. D.: Edrophonium: Duration of Action and Atropine Requirement in Humans during Halothane Anesthesia, **57:** 261

Cronnelly, R., *see* Fahey, M. R.; *also see* Fisher, D. M.; Hennis, P. J.; Miller, R. D.; Morris, R. B.

Crosby, G., Crane, A. M., Jehle, J., Sokoloff, L.: Anesthetics and CNS Metabolism during Stimulation in Rats, **58:** 38

Crosby, G., Crane, A. M., Sokoloff, L.: A Comparison of Local Rates of Glucose Utilization in Spinal Cord and Brain in Conscious and Nitrous Oxide- or Pentobarbital-treated Rats, **61:** 434

Crosby, G., Crane, A. M., Sokoloff, L.: Local Changes in Cerebral Glucose Utilization during Ketamine Anesthesia, **56:** 437

Crosby, G., Sokoloff, L.: Reply to: Pitfalls in Measuring Regional Cerebral Glucose Utilization, **58:** 291

Cross, R. S., *see* Nelson, S. R.

Crowley, T. A., *see* Ikeda, S.

Cruchley, P. M., Kaplan, J. A., Waller, J. L., Young, M. R.: Anesthesia for Isolated Hyperthermic Limb Perfusion, **57:** 228

Crumrine, R. S., Yodlowski, E. H.: Assessment of Neuromuscular Function in Infants, **54:** 29
Cucchiara, R. F.: Safety of the Sitting Position, **61:** 790
Cucchiara, R. F., Bowers, B.: Air Embolism in Children Undergoing Suboccipital Craniotomy, **57:** 338
Cucchiara, R. F., Messick, J. M.: The Failure of Nasal Plethysmography to Estimate Cerebral Blood Flow during Carotid Occlusion, **55:** 585
Cucchiara, R. F., Nugent, M., Seward, J. B., Messick, J. M.: Air Embolism in Upright Neurosurgical Patients: Detection and Localization by Two-dimensional Transesophageal Echocardiography, **60:** 353
Cucchiara, R. F., *see* Adams, R. W.; *also see* Artru, A. A.; Messick, J. M., Jr.
Cullen, B. F., *see* Sidhu, M. S.
Cullen, D. J., Kunsman, J., Caldera, D., Dennis, R. C., Valeri, C. R.: Comparative Evaluation of New Fine-screen Filters: Effects on Blood Flow Rate and Microaggregate Removal, **53:** 3
Cullen, D. J., Viby-Mogensen, J., Jørgensen, B. C., Ørding, H.: Clinical Testing for Neuromuscular Blockade Correlates with Train-of-four, **52:** 185
Cullen, D. J., *see* Jeffrey, C. C.; *also see* Linko, K.; Morley, T. S.
Culligan, J. D., *see* Thomson, I. R.
Cummins, D. F., *see* Viegas, O. J.
Cunningham, A. J., Donnelly, M., Comerford, J.: Osteogenesis Imperfecta: Anesthetic Management of a Patient for Cesarean Section: A Case Report, **61:** 91
Cunningham, E., Korbon, G. A.: Venospasm Preventing Peripheral Venous Access, **59:** 141
Curtis, B. M., Scurlock, J. E.: The Mechanism of Action of Local Anesthesia by Tetraethylammonium Derivatives, **54:** 270
Curtis, B. M., *see* Scurlock, J. E.
Cusick, J. F., Myklebust, J. B., Abram, S. E.: Differential Neural Effects of Epidural Anesthetics, **53:** 299
Cusick, J. F., Myklebust, J. B., Abram, S. E., Davidson, A.: Altered Neural Conduction with Epidural Bupivacaine, **57:** 31
Cusick, J. F., *see* Frumin, M. J.

D

Daggett, W. M., *see* Lowenstein, E.
Dahlborn, M., *see* Hedenstierna, G.
Dahlström, B., *see* Nordberg, G.
Daicoff, G. R., *see* Gordon, R. J.
Dailey, P. A., Fisher, D. M., Shnider, S. M., Baysinger, C. L., Shinohara, Y., Miller, R. D., Abboud, T. K., Kim, K. C.: Pharmacokinetics, Placental Transfer, and Neonatal Effects of Vecuronium and Pancuronium Administered during Cesarean Section, **60:** 569
Dailey, P. A., *see* Kotelko, D. M.
Dalal, F. Y., Patel, K. D.: Another Sign of Inadvertent Carotid Cannulation, **55:** 487
Dalens, B., Labbé, A., Haberer, J.-P.: Respiratory Assistance Secured by Jet-Ventilation during Broncho-Fiberscopy in Forty-nine Infants, **57:** 551
Dalens, B., Labbé, A., Haberer, J.-P.: Selective Endobronchial Blocking *vs.* Selective Intubation, **57:** 555
Daloz, M., *see* Coriat, P.
Damask, M. C., Weissman, C., Askanazi, J., Hyman, A. I., Rosenbaum, S. H., Kinney, J. M.: A Systematic Method for Validation of Gas Exchange Measurements, **57:** 213
Damask, M. C., *see* Weissman, C.
D'Ambra, M. N., *see* Lowenstein, E.
Damen, J., Wever, J., Gherli, T., Hitchcock, F., Dion, R.: Acute Intermittent Obstruction of a Björk-Shiley Mitral Valve: A Case Report, **61:** 613
Daniel, D., *see* Safwat, A. M.
Daniel, J., *see* Abboud, T. K.
Daniel, S. S., *see* Zubrow, A. B.
Daniels, A. L., *see* Lebowitz, P. W.
Darnall, R. A., Jr., *see* Kimble, K. J.
Datta, S., Alper, M. H.: Anesthesia for Cesarean Section, **53:** 142
Datta, S., Alper, M. H., Ostheimer, G. W., Weiss, J. B.: Method of Ephedrine Administration and Nausea and Hypotension during Spinal Anesthesia for Cesarean Section, **56:** 68
Datta, S., Corke, B. C., Alper, M. H., Brown, W. U., Jr., Ostheimer, G. W., Weiss, J. B.: Epidural Anesthesia for Cesarean Section: A Comparison of Bupivacaine, Chloroprocaine, and Etidocaine, **52:** 48
Datta, S., *see* Naulty, J. S.
Dauchot, P. J., Staub, F., Berzina, L., van Heeckeren, D., Mackay, W., Sirvaitis, R.: Hemodynamic Response to Diazepam: Dependence on Prior Left Ventricular End-diastolic Pressure, **60:** 499
Davidson, A., *see* Cusick, J. F.
Davidson, A. J., Reynolds, A. C., Stewart, E. T.: Use of a Flexible, Radiopaque Directable Catheter for Difficult Tracheal Intubations, **55:** 605
Davidson, B. A., *see* Brabec, M. J.
Davidson, J. T., *see* Snir-Mor, I.
Davidson, M. B., *see* Walts, L. F.
Davies, G. K., Tolhurst-Cleaver, C. L., James, T. L.: CNS Depression from Intrathecal Morphine, **52:** 280
Davies, J. M., *see* Strunin, L.
Davies, R. O., Edwards, M. W., Jr., Lahiri, S.: Halothane Depresses the Response of Carotid Body Chemoreceptors to Hypoxia and Hypercapnia in the Cat, **57:** 153
Davies, W. L., *see* Evans, J. M.; *also see* Lowenstein, E.
Davis, D. A., *see* Klein, F. F.
Davis, D. W., Hawkins, R. A., Mans, A. M., Hibbard, L. S., Biebuyck, J. F.: Regional Cerebral Glucose Utilization during Althesin® Anesthesia, **61:** 362
Davis, F. M.: Methods of Radial Artery Cannulation and Subsequent Arterial Occlusion, **56:** 331
Davis, H.: Time to Correct a Recurring Error, **55:** 719
Davis, R. F.: Yet Another CVP Artifact, **60:** 262
Davis, R. F., DeBoer, L. W. V., Rude, R. E., Lowenstein, E., Maroko, P. R.: The Effect of Halothane Anesthesia on Myocardial Necrosis, Hemodynamic Performance, and Regional Myocardial Blood Flow in Dogs Following Coronary Artery Occlusion, **59:** 402
Davis, R. F., *see* Brown D. L.
Davis, T. M., *see* Malone, B. T.
Day, N. S., Blake, G. J., Standaert, F. G., Dretchen, K. L.: Train-of-Four Response in Fast and Slow Muscles, **58:** 414
de Boer, A. G., *see* Burm, A. G. L.
De Campo, T., *see* Goldman, E.
De Champlain, J., *see* Marty, J.
de Goede, J., *see* Berkenbosch, A.
de Haan, P., *see* Knape, J. T. A.
de Jong, A. P., *see* Knape, J. T. A.
de Jong, J. W., *see* Merin, R. G.
de Jong, R. H.: Differential Nerve Block by Local Anesthetics, **53:** 443
de Jong, R. H.: Vive Pascal!, **58:** 296
de Jong, R. H., Bonin, J. D.: Mixtures of Local Anesthetics Are No More Toxic than the Parent Drugs, **54:** 177
de la Vega, S. B., *see* Boucek, C. D.
de Lange, J. J., Booij, L. H. D.: Acute Pulmonary Embolism during Therapeutic Arterial Embolization with Silicone Fluids, **60:** 384
de Lange, J. J., *see* Baerts, W. D. M.
de Lange, S., Boscoe, M. J., Stanley, T. H., Pace, N.: Comparison of Sufentanil–O_2 and Fentanyl–O_2 for Coronary Artery Surgery, **56:** 112
de Rosayro, A. M.: A Case of Unilateral Analgesia Following Epidural and Subarachnoid Block Revisited, **55:** 478
de Rosayro, A. M., *see* Hill, A. B.
De Ville, A., *see* d'Hollander, A. A.
Deady, J. E., *see* Koblin, D. D.
Dean, S. E., Keenan, R. L.: Reply to: Rebreathing and the Bain Circuit, **58:** 393
Dean, S. E., Keenan, R. L.: Spontaneous Breathing with a T-Piece Circuit: Minimum Fresh Gas/Minute Volume Ratio Which Prevents Rebreathing, **56:** 449
Deane, R. S., *see* Shinozaki, T.
Deas, T. C.: Another Warning Concerning the Hazards of Selector Shunt Values, **56:** 239
DeBoard, J. W., Ghia, J. N., Guilford, W. B.: Caudal Anesthesia in a Patient with Ankylosing Spondylitis for Hip Surgery, **54:** 164
DeBoer, L. W. V., *see* Davis, R. F.

DeCook, T. H., *see* Liu, L. M. P.
Dedrick, D. F., *see* Coté, C. J.; *also see* Goudsouzian, N.; Liu, L. M. P.
Dehring, D. J., McDonald, J. S.: Intubation, Aspiration Prophylaxis in Midtrimester Abortions, **61:** 223
deKock, M. A., Nadel, J. A., Lewis, C. M.: Mechanisms of Airways Obstruction in Human Respiratory Disease, **52:** 197
DeKornfeld, T. J.: Selected Papers in Respiratory Therapy, **52:** 459
DeKornfeld, T. J., *see* Israel, J. S.; *also see* Slack, S. J.
Delaney, D. J., *see* Brown, D. R.
Delaney, T. J., Miller, E. D., Jr.: Rebound Hypertension after Sodium Nitroprusside Prevented by Saralasin in Rats, **52:** 154
Delaney, T. J., *see* Miller, E. D., Jr.
Delavault, E., *see* Prokocimer, P.
DeLeeuw, P.: An Aid to Airway Maintenance during Operative Sedation, **60:** 388
deLisser, E. A., Muravchick, S.: Emergency Transtracheal Ventilation, **55:** 606
Demczuk, R. J.: Significant Sinus Bradycardia Following Intravenous Lidocaine Injection, **60:** 69
Denlinger, J. K., *see* Hill, A. B.
Dennis, R. C., *see* Cullen, D. J.
Denson, D. D., *see* Coyle, D. E.; *also see* Raj, P. P.
Derby, G. C., *see* Hilberman, M.; *also see* Maseda, J.
Derenne, J. Ph., *see* Clergue, F.
Desai, S., *see* Jumper, A.
Desai, S. P., Fencl, V.: A Safe Technique for Changing Endotracheal Tubes, **53:** 267
deSanctis, C. A., *see* Cook, T. G.
DesMarteau, J. K.: Flow through the Copper Kettle Flowmeter, **61:** 789
Desmonts, J.-M., *see* Duvaldestin, P.; *also see* Marty, J.; Prokocimer, P.
Despierres, O., *see* Clergue, F.
Detmer, M. D., Chandra, P., Cohen, P. J.: Occurrence of Hypercarbia Due to an Unusual Failure of Anesthetic Equipment, **52:** 278
Dettbarn, W-D., *see* Corke, B. C.
Devitt, J. H., Noble, W. H., Byrick, R. J.: A Swan-Ganz Catheter Related Complication in a Patient with Eisenmenger's Syndrome, **57:** 335
Devitt, J. H., *see* Noble, W. H.
DeVore, J. S., Asrani, R.: Magnesium Sulfate Prevents Succinylcholine-induced Fasciculations in Toxemic Parturients, **52:** 76
DeVore, M., *see* Younker, D.
Dewan, D. M., Floyd, H. M., Grant, W. T., James, F. M., III, Wheeler, A. S., Westmoreland, R. T., Rhyne, L.: Patient Acceptance of Orally Administered Antacid Therapy during Labor, **52:** 526
Dewan, D. M., *see* James, F. M., III; *also see* Wheeler, A. S.
Dhamee, M. S., Bardeen-Henschel, A.: A Simple Method for Sealing Used Blood Bags, **54:** 92
Dhamee, M. S., *see* Gandhi, S.
Dhasmana, K. M., *see* Saxena, P. R.
D'Hollander, A., *see* Duvaldestin, P.
d'Hollander, A. A., Duvaldestin, P., Henzel, D., Nevelsteen, M., Bomblet, J. P.: Pancuronium Requirement, Plasma Concentration, and Urinary Excretion in Cardiopulmonary Bypass with Hypothermia, **58:** 505
d'Hollander, A. A., Luyckx, C., Barvais, L., De Ville, A.: Clinical Evaluation of Atracurium Besylate Requirement for a Stable Muscle Relaxation during Surgery: Lack of Age-related Effects, **59:** 237
Dias, J., *see* Matteo, R. S.
Diaz, A., *see* Loeser, E. A.
Diaz, J. H.: Further Modifications of the Miller Blade for Difficult Pediatric Laryngoscopy, **60:** 612
Diaz, J. H., Stedman, P. M., LeTard, F. X.: Perioperative Management of Newborn Pharyngeal Teratomas, **61:** 608
Diaz, J. H., *see* Henling, C. E.
Diaz, P. M.: Balloon Catheter Should Increase Recovery of Embolized Air, **57:** 66
Diebolt, J. R., *see* Otteni, J. C.
Dienes, R. S., Jr., *see* Hannenberg, A. A.
Dierdorf, S. F., *see* Stoelting, R. K.
Diewold, R. J., *see* Brownell, A. K. W.
DiFazio, C. A., *see* Gal, T. J.; *also see* Korbon, G. A.; Lake, C. L.; Lescanic, M. L.; Niederlehner, J. R.; Raja, S. N.; Rowlingson, J. C.
Dikmen, S., *see* Morgan, S. F.
Dimas, S., *see* Kacmarek, R. M.
Dimopoulos, G. E., *see* Brock-Utne, J. G.
DiNardo, J. A., Satwicz, P. R.: Occlusion-Shake Test for Pulmonary Artery Catheters, **61:** 349
Dion, R., *see* Damen, J.
Ditchik, J., Herr, G. P.: Can We Do without O_2 Analyzers, **61:** 629
Divertie, M. B., *see* Warner, M. A.
Dobkin, A. B.: Development of New Volatile Inhalation Anaesthetics, Volume 6, **52:** 290
Doblar, D. D., Hinkle, J. C.: Flowmeter Malfunction: Effect on Delivered Anesthetic Concentration, **61:** 220
Doblar, D. D., Hinkle, J. C., Fay, M. L., Condon, B. F.: Air Embolism Associated with Pulmonary Artery Catheter Introducer Kit, **56:** 307
Doblar, D. D., Hinkle, J. C., Fay, M. L., Condon, B. F.: Air Embolism Associated with Pulmonary Artery Catheter Introducer Kit, **56:** 389
Doblar, D. D., Muldoon, S. M., Abbrecht, P. H., Baskoff, J., Watson, R. L.: Epidural Morphine Following Epidural Local Anesthesia: Effect on Ventilatory and Airway Occlusion Pressure Responses to CO_2, **55:** 423
Doblar, D. D., Santiago, T. V., Kahn, A. U., Edelman, N. H.: The Effect of Positive End-Expiratory Pressure Ventilation (PEEP) on Cerebral Blood Flow and Cerebrospinal Fluid Pressure in Goats, **55:** 244
Doblar, D. D., *see* Knill, R. L.
Doblar, D. D.: Reply to: The ICP/CBF Effects of Volume Loading during PEEP Administration, **57:** 62
Dodson, M. G., *see* Yacoub, O. F.
Dohi, S., Matsumiya, N., Takeshima, R., Naito, H.: The Effects of Subarachnoid Lidocaine and Phenylephrine on spinal cord and Cerebral Blood Flow in Dogs, **61:** 238
Dohi, S., Matsumoto, M., Takahashi, T.: The Effects of Nitroglycerin on Cerebrospinal Fluid Pressure in Awake and Anesthetized Humans, **54:** 511
Dohi, S., Naito, H.: Intraarterial Injection of 2.5% Thiamylal Does Cause Gangrene, **59:** 154
Dohi, S., Nishikawa, T., Ujike, Y., Mayumi, T.: Circulatory Responses to Airway Stimulation and Cervical Epidural Blockade, **57:** 359
Dohi, S., *see* Matsumiya, N.; *also see* Nishikawa, T.
Dohi, T., *see* Ikeda, M.
Doka, J. C., *see* Ovassapian, A.
Dolan, P., Sisko, F., Riley, E.: Anesthetic Considerations for Ehlers-Danlos Syndrome, **52:** 266
Dolan, P. F.: Dantrolene and Malignant Hyperthermia, **57:** 246
Domino, K. B., Chen, L., Alexander, C. M., Williams, J. J., Marshall, C., Marshall, B. E.: Time Course and Responses of Sustained Hypoxic Pulmonary Vasoconstriction in the Dog, **60:** 562
Domino, K. B., Wetstein, L., Glasser, S. A., Lindgren, L., Marshall, C., Harken, A., Marshall, B. E.: Influence of Mixed Venous Oxygen Tension ($P\bar{v}_{O_2}$) on Blood Flow to Atelectatic Lung, **59:** 428
Domino, K. B., *see* Glasser, S. A.
Don, H. F., *see* Quan, S. F.
Donati, F., Bevan, D. R.: Potentiation of Succinylcholine Phase II Block with Isoflurane, **58:** 552
Donati, F., Bevan, D. R.: Reply to: Succinylcholine Tachyphylaxis with Isoflurane, **59:** 366
Donati, F., Bevan, D. R.: Succinylcholine Infusion during Isoflurane Anesthesia, **58:** 6
Donegan, J. H., *see* Seagard, J. L.
Donegan, M. F., Bedford, R. F.: Intravenously Administered Lidocaine Prevents Intracranial Hypertension during Endotracheal Suctioning, **52:** 516
Dong, D. E., *see* Koblin, D. D.
Dong, W. K., Bledsoe, S. W., Eng, D. Y., Heavner, J. E., Shaw, C.-M., Hornbein, T. F., Anderson, J. L.: Effects of Profound Hypotension on CNS, **58:** 61
Donham, R. T., *see* Toung, T. J. K.
Donlon, J. V., Jr., Lang, D. W.: Factors Af-

fecting Measurement of Intraocular Pressure, **52:** 99
Donlon, J. V., Jr., Savarese, J. J., Ali, H. H., Teplik, R. S.: Human Dose–Response Curves for Neuromuscular Blocking Drugs: A Comparison of Two Methods of Construction and Analysis, **53:** 161
Donlon, J. V., Jr., *see* Stinson, T. W., III
Donnelly, M., *see* Cunningham, A. J.
Dooley, J. R., *see* Rice, S. A.
Dooley, S., *see* Ahmad, S.
Dorsch, J. A., *see* Dorsch, S. E.
Dorsch, S. E., Dorsch, J. A.: Use of Oxygen Analyzers Should be Mandatory, **59:** 161
Dorsey, L., *see* Kates, R. A.
Downes, H., Hirshman, C. A., Leon, D. A.: Local Anesthetics as Bronchodilator Aerosols, **58:** 216
Downes, H., *see* Hirshman, C. A.; *also see* Koga, Y.
Downes, J. J., *see* Harrington, J.; *also see* Karl, H. W.; Lee, K. W. T.
Downey, G. O., *see* Watson, D. W.
Downing, J. W.: A Few Observations and Suggestions Regarding the Art of Public Communication, **57:** 346
Downing, J. W., Brock-Utne, J. G., Mankowitz, E.: Two New Drugs Improve Anesthetic Management in Obstetrics, **55:** 334
Downing, J. W., *see* Brock-Utne, J. G.
Downs, J. B., *see* Bruce, D. L.; *also see* Stock, M. C.
Doyle, E., *see* Grundy, B. L.
Drain, C. B., Shipley, S. B.: The Recovery Room, **52:** 104
Dresel, P. E., Smith, E. R.: Reply to: Thiobarbiturates Induce Arrhythmias in Dogs, **58:** 395
Dresel, P. E., *see* Smith, E. R.
Dretchen, K. L., *see* Day, N. S.; *also see* Scappaticci, K. A.
Drop, L. J., Miller, E. V.: Biochemical Alterations during Tetany, **52:** 82
Drop, L. J., *see* Howland, W. S.
Drummond, J. C.: Of Venous Air Embolism, Aminophylline, and Volatile Agents, **60:** 389
Drummond, J. C.: Tension Pneumocephalus and Intermittent Drainage of Ventricular CSF, **60:** 609
Drummond, J. C., Sager, H.: A Patient Transfer Method: Try It, You'll Be Glad You Did, **57:** 549
Drummond, J. C., Todd, M. M.: Acute Sinus Arrhythmia during Surgery in the Fourth Ventricle: An Indicator of Brain-stem Irritation, **60:** 232
Drummond, J. C., Todd, M. M., Shapiro, H. M.: The ICP/CBF Effects of Volume Loading during PEEP Administration, **57:** 62
Drummond, J. C., Todd, M. M., Toutant, S. M., Shapiro, H. M.: Brain Surface Protrusion during Enflurane, Halothane, and Isoflurane Anesthesia in Cats, **59:** 288
Drummond, J. C., *see* Todd, M. M.
du Boulay, P. M. H., Nahrwold, M. L.: *In Vivo* Response of Air-filled Balloon-tipped Catheters to Nitrous Oxide, **57:** 530
du Moulin, G. C., Hedley-Whyte, J.: Bacterial Interactions between Anesthesiologists, Their Patients, and Equipment, **57:** 37
du Moulin, G. C., Hedley-Whyte, J.: Hospital-associated Viral Infection and the Anesthesiologist, **59:** 51
du Moulin, G. C., *see* Bancroft, M. L.
Dubois, M., Pickar, D., Cohen, M., Gadde, P., Macnamara, T. E., Bunney, W. E.: Effects of Fentanyl on the Response of Plasma Beta-Endorphin Immunoreactivity to Surgery, **57:** 468
Dubois, M., Smith, N. T., Fleming, R. A.: DSA System Misleading, **52:** 101
Dubourg, O., *see* Fischler, M.
Ducardus, R., *see* Rupreht, J.
Duckworth, E. N., *see* Lake, C. L.
Dudziak, R. M.: Corrections Concerning Precipitation of Local Anesthetics in CSF, **58:** 388
Dueck, R., O'Connor, R. D.: Thiopental: False-positive RAST in Patients with Elevated Serum IgE, **61:** 337
Dueck, R., Rathbun, M., Greenburg, G. A.: Lung Volume and VA/Q Distribution Response to Intravenous *versus* Inhalation Anesthesia in Sheep, **61:** 55
Dueck, R., Rathbun, M., Harrison, W. K.: Canine $\dot{V}_A/\dot{Q}$ Distribution Responses to Inhalation Anesthesia and Mechanical Ventilation, **55:** 127
Dueck, R., Young, I., Clausen, J., Wagner, P. D.: Altered Distribution of Pulmonary Ventilation and Blood Flow Following Induction of Inhalational Anesthesia, **52:** 113
Dueck, R., *see* Todd, M. M.
Duff, T., *see* Flemming, D. C.
Duke, P. C., *see* Morton, M.
Dunbar, B. S., *see* Flashburg, M. H.
Duncalf, D.: Flammable Anesthetics Are Nearing Extinction, **56:** 217
Duncan, P. G., Kobrinsky, N.: Prilocaine-induced Methemoglobinemia in a Newborn Infant, **59:** 75
Dundee, J. W.: Concerning the Antiemetic Efficacy of Metoclopramide, **61:** 229
Dundee, J. W.: Intraarterial Thiopental, **59:** 154
Dundee, J. W.: Intravenous Anaesthetic Agents, **53:** 90
Dundee, J. W., *see* Bahar, M.; *also see* Wilson, D. B.
Dunham, C. M. (ed.), *see* Cowley, R. A. (ed.)
Dunlop, B. J., *see* Todd, M. M.
Dunn, G. L., Morison, D. H., Fargas-Babjak, A. M., Goldsmith, C. H.: Zomepirac vs Codeine as Premedicants in Short-stay Surgery, **58:** 265
Durant, N. N., Briscoe, J. R., Katz, R. L.: The Effects of Acute and Chronic Hydrocortisone Treatment on Neuromuscular Blockade in the Anesthetized Cat, **61:** 144
Durant, N. N., Lee, C., Katz, R. L.: 4-Aminopyridine Reversal of Sympathetic Ganglionic Blockade in the Anesthetized Cat, **52:** 381
Durant, N. N., Nguyen, N., Katz, R. L.: Potentiation of Neuromuscular Blockade by Verapamil, **60:** 298
Durant, N. N., Nguyen, N., Katz, R. L.: Reply, **61:** 784
Durant, N. N., *see* Lee, C.
Durant, P. A. C., *see* Bromage, P. R.
Durbin, C. G., *see* Lake, C. L.
Dutton, G., *see* Lips, F. J.
Duvaldestin, P., Mazze, R. I., Nivoche, Y., Desmonts, J.-M.: Occupational Exposure to Halothane Results in Enzyme Induction in Anesthetics, **54:** 57
Duvaldestin, P., Saada, J., Berger, J. L., D'Hollander, A., Desmonts, J. M.: Pharmacokinetics, Pharmacodynamics, and Dose-Response Relationships of Pancuronium in Control and Elderly Subjects, **56:** 36
Duvaldestin, P., *see* d'Hollander, A. A.; *also see* Pandele, G.
Dworacek, B., *see* Rupreht, J.; *also see* van Poorten, J. F.
Dworsky, W. A., *see* White, P. F.
Dyck, P. J., Grina, L. A., Lambert, E. H., Calder, C. S., Oviatt, K., Rehder, K., Lund, B. A., Skau, K. A.: Nitrous Oxide Neurotoxicity Studies in Man and Rat, **53:** 205
Dykes, M. H. M.: Comment on the American Board of Anesthesiology's "Quality Anesthesia Care": A Question of Learning Objectives, **53:** 237
Dykes, M. H. M.: Is Enflurane Hepatotoxic, **61:** 235
Dykes, M. H. M., *see* Ovassapian, A.
Dzoljic, M. R., *see* Rupreht, J.

E

Eastwood, D. W., *see* Park, Y. R.; *also see* Youngstrom, P. C.
Ebert, J., Varner, P. D.: The Effective Use of Epidural Morphine Sulfate for Postoperative Orthopedic Pain, **53:** 257
Ebert, J., *see* McDanal, J. T.
Ebert, P. A., *see* Palmisano, B. W.
Ebert, T. J., *see* Kotrly, K. J.
Echenhoff, J. E. (ed.), Bart, A. J. (ed.), Brunner, E. A. (ed.), Holley, H. S. (ed.), Linde, H. W. (ed.): The Year Book in Anesthesia 1980, **56:** 77
Echiverri, E., *see* Bishay, E. G.
Echter, E., *see* Coriat, P.
Eckenhoff, J. E. (ed.), Bart, A. J. (ed.), Brunner, E. A. (ed.), Holley, H. S. (ed.), Linde, H. W. (ed.): Year Book of Anesthesia, 1979, **53:** 91
Eckersberger, F., *see* Haider, W.
Ecoffey, C., *see* Clergue, F.

Edde, R. R.: Hemodynamic Changes Prior to and After Sternotomy in Patients Anesthetized with High-dose Fentanyl, **55:** 444
Edelist, G., *see* Verrier, E. D.
Edelman, J. D.: An Aid in Arterial Cannulation, **53:** 79
Edelman, J. D., Wingard, D. W.: Air Embolism Arising from Burr Holes, **33:** 167
Edelman, J. D., Wingard, D. W.: Subdural Hematomas after Lumbar Dural Puncture, **52:** 166
Edelman, N. H., *see* Doblar, D. D.
Edelstein, G., Hirshman, C. A.: Hyperthermia and Ketoacidosis during Anesthesia in a Child with Glycogenstorage Disease, **52:** 90
Edelstein, G., *see* Hermens, J. M.; *also see* Hirshman, C. A.
Edmunds, H. N., Trudell, J. R., Cohen, E. N.: Low-level Binding of Halothane Metabolites to Rat Liver Histones *In Vivo*, **54:** 298
Edsall, D. W.: Economy is Not a Major Benefit of Closed-system Anesthesia, **54:** 258
Edwards, M. W., Jr., *see* Davies, R. O.
Egbert, B., *see* Baden, J. M.
Eger, E. I., II: Isoflurane (Forane®), **55:** 610
Eger, E. I., II: Isoflurane: A Review, **55:** 559
Eger, E. I., II, *see* Way, W. L.; *also see* Cahalan, M. K.; Feeley, T. W.; Gencarelli, P. J.; Harper, M. H.; Horrigan, R. W.; Joyce, J. T.; Koblin, D. D.; Lerman, J.; Melvin, M. A.; Quasha, A. L.; Steffey, E. P.
Egerszegi, P., *see* Ferguson, A.
Eggers, G. W. N., Jr., *see* Johans, T. G.
Ehrenwerth, J., *see* Brodsky, J. B.
Eisele, J. H., Jr., Steffey, E. P.: Narcotic Analgesia—Ceiling Effect, **60:** 392
Eisenman, T. S.: On the Prevention of Hypoxic Accidents, **61:** 624
Eisenstein, M. M., *see* Schulman, D. S.
Ekstrand, J., *see* Järnberg, P.-O.
Elash, A., *see* Brownell, A. K. W.
Elegbe, E. O., *see* Seagard, J. L.
El-Etr, A. A., *see* Balasaraswathi, K.; *also see* Gorski, D. W.; Rao, T. L. K.; Shah, K. B.
Elinger, J. H., *see* Perkins, N. A. K.
Ellingson, R. J., *see* Poulton, T. J.
Elliott, M. B., King, I. R., Moore, W. P.: A Modified Uterine Displacement Device, **57:** 146
Elliott, M. J., Gill, G. V., Home, P. D., Noy, G. A., Holden, M. P., Alberti, K. G. M. M.: A Comparison of Two Regimens for the Management of Diabetes during Open-heart Surgery, **60:** 364
Ellis, A. K., *see* Klocke, F. J.
Ellis, F. R., *see* Campbell, I. T.
Ellis, R. H. (ed.), *see* Sykes, W. S. (ed.)
Ellison, N., Jobes, D. R., Schwartz, A. J.: Cannulation of the Internal Jugular Vein: A Cautionary Note, **55:** 336
Ellison, N., Jobes, D. R., Schwartz, A. J.: Cannulation of the Internal Jugular Vein: Another Cautionary Note, **57:** 345
Ellison, N., *see* Gallagher, J. D.; *also see* Jobes, D. R.; Schwartz, A. J.
Elmelik, E., *see* Samii, K.
El-Sayad, H. A., *see* Savarese, J. J.
Elwyn, D. H., *see* Askanazi, J.
Endres, S. M., *see* Muir, J. J.
Eng, D. Y., *see* Dong, W. K.
Engbæk, J., *see* Howardy-Hansen, P.; *also see* Viby-Mogensen, J.
Engel, H. L., *see* Turnbull, K. W.
Engelking, K., *see* Collier, H. W.
Englebach, I., *see* Carlsson, C.
English, J. B., Hodges, M. R., Sentker, C., Johansen, R., Stanley, T. H.: Comparison of Aortic Pulse-wave Contour Analysis and Thermodilution Methods of Measuring Cardiac Output during Anesthesia in the Dog, **52:** 56
Engquist, A., *see* Jørgensen, B. C.
Epstein, B. S., *see* Abramowitz, M. D.; *also see* Cassady, J. F.; Kaplan, R.; Ott, V. V.; Patel, R. I.
Epstein, J., *see* Giffin, J. P.
Epstein, R. A.: Wasted Ventilation, **60:** 617
Epstein, R. A., Hyman, A. I.: Ventilatory Requirements of Critically Ill Neonates, **53:** 379
Epstein, R. M., *see* Arnold, W. P.; *also see* Bageant, R. A.; Miller, E. D., Jr.; Woodside, J., Jr.
Erceg, G. W.: A Sterile Cover for Repositioning a Pulmonary-artery Catheter, **52:** 193
Erceg, G. W., *see* Arandia, H. Y.
Erdmann, A. J., Hüttemeir, P. C., Landolt, C., Zapo, W. M.: Oxygen Toxicity and Lung Microvascular Permeability, **58:** 153
Erenberg, A., *see* Merkow, A. J.
Erickson, J., *see* Bourke, D. L.
Erickson, J. C., III, *see* Tarrow, A. B.
Erikkson, E. (ed.): Illustrated Handbook in Local Anesthesia, **54:** 176
Ernst, E. A.: Use of Charcoal to Rapidly Decrease Depth of Anesthesia While Maintaining a Closed Circuit, **57:** 343
Estafanous, F. G., Fouad, F. M., Tarazi, R. C.: Preoperative Stellate-ganglion Blockade to Prevent Hypertension Following Coronary-artery Operations, **52:** 454
Estafanous, F. G., *see* Zurick, A. M.
Estilo, A. E., Cottrell, J. E.: Naloxone, Hypertension, and Ruptured Cerebral Aneurysm, **54:** 352
Etter, M. S., Helrich, M., Mackenzie, C. F.: Immunoglobulin E Fluctuation in Thiopental Anaphylaxis, **52:** 181
Evans, J. M., Davies, W. L., Wise, C. C.: Intrinsic Lower Esophageal Activity May Interfere with Esophageal Pressure Measurements, **60:** 615
Evans, J. M., *see* Palayiwa, E.
Evans, R. T., *see* Campbell, I. T.
Eyler, S. W., Zaccari, J.: Neutralizing Capacity of Particulate Antacids, **58:** 591

F

Fagraeus, L., Urban, B. J., Bromage, P. R.: Spread of Epidural Analgesia in Early Pregnancy, **58:** 184
Fahey, M. R., Morris, R. B., Miller, R. D., Sohn, Y. J., Cronnelly, R., Gencarelli, P.: Clinical Pharmacology of ORG NC45 (Norcuron™): A New Nondepolarizing Muscle Relaxant, **55:** 6
Fahey, M. R., Rupp, S. M., Fisher, D. M., Miller, R. D., Sharma, M., Canfell, C., Castagnoli, K., Hennis, P. J.: The Pharmacokinetics and Pharmacodynamics of Atracurium in Patients with and without Renal Failure, **61:** 699
Fahey, M. R., *see* Fisher, D. M.; *also see* Miller, R. D.; Morris, R. B.
Fahmy, N. R.: Consumption of Vitamin B_{12} during Sodium Nitroprusside Administration in Humans, **54:** 305
Fahmy, N. R.: Hemodynamics, Plasma Histamine, and Catecholamine Concentrations during an Anaphylactoid Reaction to Morphine, **55:** 329
Fairhurst, A. S., Hamamoto, V., Macri, J.: Modification of Ryanodine Toxicity by Dantrolene and Halothane in a Model of Malignant Hyperthermia, **53:** 199
Fairley, H. B., *see* Katz, J. A.; *also see* Ozanne, G. M.; Zinn, S. E.
Fairman, R. P., *see* Sugerman, H. J.
Fallacaro, M. D., *see* Sievenpiper, T. S.
Falltrick, R. T., *see* Quan, S. F.; *also see* Schlobohm, R. M.
Famewo, C. E.: Intraluminal Tracheal Tube Obstruction, **58:** 593
Fan, F.-C., Chen, R. Y. Z., Chien, S., Correll, J. W.: Bypass Blood Flow during Carotid Endarterectomy, **55:** 305
Fan, F.-C., Kim, S., Simchon, S., Chen, R. Y. Z., Schuessler, G. B., Chien, S.: Effects of Sodium Nitroprusside on Systemic and Regional Hemodynamics and Oxygen Utilization in the Dog, **53:** 113
Fan, F.-C., *see* Chen, R. Y. Z.
Fargas-Babjak, A. M., *see* Dunn, G. L.
Fariello, R. G., *see* Flemming, D. C.
Farinotti, M., *see* Pandele, G.
Fassoulaki, A., Mihas, T., Kaniaris, P.: A Survey of the Performances of Six Anesthesia Journals, **53:** 346
Faulhaber, J. A., *see* Rooke, G. A.
Faure, E., *see* Ahmad, S.
Faust, R. J., *see* Messick, J. M., Jr.
Favre, H., *see* Gamulin, Z.
Fay, M. L., *see* Doblar, D. D.
Feeley, T. W., Hamilton, W. K., Xavier, B., Moyers, J., Eger, E. I., II: Sterile Anesthesia Breathing Circuits Do Not Prevent Postoperative Pulmonary Infection, **54:** 369
Feeley, T. W., *see* Mihm, F. G.; *also see* Quan, S. F.; Quasha, A. L.
Feichtinger, W., *see* Neumark, J.
Fein, G., *see* Hickey, R. F.

Feingold, A.: Oxygen Analyzers as Viewed by the Public, Attorneys, and an Anesthesiologist, **57:** 553
Feingold, A.: Pitfalls in Deriving Pharmacokinetic Variables. II, **56:** 236
Feingold, A., Stanski, D. R.: Questions Regarding a Time-dependent Increase in Sensitivity to *d*-Tubocurarine during Enflurane Anesthesia, **54:** 260
Feldman, H. S., Covino, B. G.: A Chronic Model for Investigation of Experimental Spinal Anesthesia in the Dog, **54:** 148
Feldman, H. S., *see* Morishima, H. O.
Feldman, S. A., Stanski, D. R.: Partition Coefficient *vs.* Dissociation Rate Constant as Determinant of Duration of Neuromuscular Blockade, **54:** 350
Feldman, S. (ed.), *see* Scurr, C. (ed.)
Fencl, V., *see* Desai, S. P.
Fenwick, D. G., *see* Lillie, P. E.
Ferguson, A., Egerszegi, P., Bevan, D. R.: Neostigmine, Pyridostigmine, and Endrophonium as Antagonists of Pancuronium, **53:** 390
Fernández-Cano, F.: A Simple Accurate Technique for Establishing Zero Reference Levels for Pressure Measurements, **61:** 478
Ferrer, E. B., *see* Teeple, E.
Fewell, J. E., Bond, G. C.: Role of Sinoaortic Baroreceptors in Initiating the Renal Response to Continuous Positive-pressure Ventilation in the Dog, **52:** 408
Finch, J. S., *see* Bandy, K. P.
Finck, A. D., Ngai, S. H.: Opiate Receptor Mediation of Ketamine Analgesia, **56:** 291
Finck, A. D., *see* Ngai, S. H.; *also see* Wulfson, H. D.
Findlay, J. W. A., *see* Kafer, E. R.
Fink, B. R.: Abduction of the Vocal Cords, **52:** 95
Fink, B. R.: Drug Toxicity Should Affect Drug Choice, **57:** 426
Fink, B. R.: Paradoxical Preservation of Neural Conduction by Lidocaine, **57:** 167
Fink, B. R.: Unitary Explanation for Differential Nerve Block Remains Elusive, **55:** 191
Fink, B. R., Cairns, A. M.: A New Approach to Differential Peripheral Nerve Fiber Block: Na^+, K^+-ATPase Inhibition, **59:** 127
Fink, B. R., Cairns, A. M.: Differential Peripheral Axon Block with Lidocaine: Unit Studies in the Cervical Vagus Nerve, **59:** 182
Fink, B. R., Cairns, A. M.: Differential Slowing and Block of Conduction by Lidocaine in Individual Afferent Myelinated and Unmyelinated Axons. **60:** 111
Fink, B. R., Cairns, A. M.: Diffusional Delay in Local Anesthetic Block *In Vitro*, **61:** 555
Fink, B. R., Calkins, D. F.: Role of Glucose or Potassium Lack in Nerve Block, **55:** 172
Fink, B. R., *see* Schimek, F.
Fink, R. B., Cairns, A. M.: Reply to: Reported Nerve Conduction Velocities Clarified and Confirmed, **60:** 515
Finster, M., *see* Morishima, H. O.
Finucane, B. T., Bramwell, R. S. B.: Regional Anesthesia is Preferable for the Premature Fetus, **54:** 435
Firestone, S., *see* Liu, L. M. P.
Fischbach, D. P., Fogdall, R. P.: Coagulation: The Essentials, **57:** 71
Fischer, H. R., *see* Hurwitz, A.
Fischler, M., Tritz, J. P., Vurpillat, J. M., Rongier, P., Vourc'h, G.: Pulmonary Vein Catheterization, an Unexpected Location of a Central Venous Catheter Placement, **60:** 616
Fischler, M., Vourc'h, G., Dubourg, O., Bourdarias, J. P.: Patent Foramen Ovale and Sitting Position, **60:** 83
Fischler, M., *see* Vourc'h, G.
Fish, K., Sievenpiper, T., Rice, S. A., Wharton, R. S., Mazze, R. I.: Renal Function in Fischer 344 Rats with Chronic Renal Impairment after Administration of Enflurane and Gentamicin, **53:** 481
Fish, K. J., Rice, S. A.: Halothane Inhibits Metabolism of Enflurane in Fischer 344 Rats, **59:** 417
Fish, K. J., *see* Schonwald, G.
Fishburne, J. I., *see* Wheeler, A. S.
Fisher, C. A., *see* Rosenberg, H.
Fisher, D. M.: Are the Pharmacokinetics of Alfentanil Really Predictable, **59:** 256
Fisher, D. M., Canfell, C., Miller, R. D.: Stability of Atracurium Administered by Infusion, **61:** 347
Fisher, D. M., Cronnelly, R., Miller, R. D., Sharma, M.: The Neuromuscular Pharmacology of Neostigmine in Infants and Children, **59:** 220
Fisher, D. M., Cronnelly, R., Sharma, Manohar, Miller, R. D.: Clinical Pharmacology of Edrophonium in Infants and Children, **61:** 428
Fisher, D. M., Fahey, M. R., Cronnelly, R., Miller, R. D.: Potency Determination for Vecuronium (ORG NC45): Comparison of Cumulative and Single-dose Techniques, **57:** 309
Fisher, D. M., Frewen, T., Swedlow, D. B.: Increase in Intracranial Pressure during Suctioning—Stimulation vs. Rise in Pa_{CO_2}, **57:** 416
Fisher, D. M., Miller, R. D.: Vecuronium (ORG NC45) in Infants and Children During N_2O, Halothane Anesthesia, **58:** 519
Fisher, D. M., O'Keeffe, C., Stanski, D. R., Cronnelly, R., Miller, R. D., Gregory, G. A.: Pharmacokinetics and Pharmacodynamics of *d*-Tubocurarine in Infants, Children, and Adults, **57:** 203
Fisher, D. M., Robinson, S., Gregory, G. A.: Additional Causes of Postoperative Respiratory Complications in Premature Infants, **57:** 428
Fisher, D. M., *see* Cronnelly, R.; *also see* Dailey, P. A.; Fahey, M. R.; Hennis, P. J.; Miller, R. D.; Palmisano, B. W.
Fisher, J., Noble, W. H., Kay, J. C.: Hypoxemia Following Pulmonary Embolism: A Dog Model of Altering Regional Perfusion, **54:** 204
Fisher, J. T., Mortola, J. P., Smith, B., Fox, G. S., Weeks, S. K.: Neonatal Pattern of Breathing Following Cesarean Section: Epidural versus General Anaesthesia, **59:** 389
Fisher, M. McD.: Reaginic Antibodies to Drugs Used in Anesthesia, **52:** 318
Fisher, Y. I., *see* Blanck, T. J. J.
Fisk, G. C., *see* Brown, T. C. K.
Fitzgibbons, D. C.: Malignant Hyperthermia Following Preoperative Oral Administration of Dantrolene, **54:** 73
Fitzgibbons, D. C., Moore, D. C., Balfour, R. I.: Convulsant Blood Levels of Bupivacaine, **55:** 476
Fitzpatrick, J., *see* Flemming, D. C.
Fitzpatrick, J. H., Jr., Gilboe, D. D.: Effects of Nitrous Oxide on the Cerebrovascular Tone, Oxygen Metabolism, and Electroencephalogram of the Isolated Perfused Canine Brain, **57:** 480
Flacke, W. E., *see* Kapur, P. A.
Flashburg, M. H., Dunbar, B. S., August, G., Watson, D.: Anesthesia for Surgery in an Infant with DiGeorge Syndrome, **58:** 479
Fleming, R. A., *see* Dubois, M.
Flemming, D. C., Fitzpatrick, J., Fariello, R. G., Duff, T., Hellman, D., Hoff, B. H.: Diagnostic Activation of Epileptogenic Foci by Enflurane, **52:** 431
Flesch, H., *see* Otteni, J. C.
Fletcher, R., Nordström, L., Werner, O., Jonson, B.: A Possible Source of Error in Gas Exchange Measurements, **59:** 77
Flewellen, E. H., Nelson, T. E.: Dantrolene Dose Response in Malignant Hyperthermia-susceptible (MHS) Swine: Method to Obtain Prophylaxis and Therapeusis, **52:** 303
Flewellen, E. H., Nelson, T. E.: Prophylactic and Therapeutic Doses of Dantrolene for Malignant Hyperthermia, **61:** 477
Flewellen, E. H., Nelson, T. E., Bee, D. E.: Effect of Dantrolene on Neuromuscular Block by *d*-Tubocurarine and Subsequent Antagonism by Neostigmine in the Rabbit, **52:** 126
Flewellen, E. H., Nelson, T. E., Jones, W. P., Arens, J. F., Wagner, D. L.: Dantrolene Dose Response in Awake Man: Implications for Management of Malignant Hyperthermia, **59:** 275
Floyd, H. M., *see* Dewan, D. M.; *also see* James, F. M., III
Flynn, J. T.: Oxygen and Retrolental Fibroplasia: Update and Challenge, **60:** 397
Flynn, J. T.: Reply, **61:** 785

Foëx, P., *see* Bellows, W. H.; *also see* Lowenstein, E.
Fogdall, R. P., *see* Fischbach, D. P.; *also see* Ream, A. K.
Foldes, F. F.: Concerning the site of Action of Verapamil on Skeletal Muscle, **61:** 783
Footerman, D. S., *see* Gillman, M. A.
Forand, J. M., Schweiss, J. F.: Pacemaker Syndrome During Anesthesia, **60:** 588
Forbath, P. G., *see* Byrick, R. J.
Forbes, A. R., *see* Joyce, J. T.
Ford, D. J., Coyle, D. E., Harrington, J. F.: Effects of Hypersensitivity to a Halothane Metabolite on Halothane-induced Liver Damage, **60:** 141
Ford, D. J., Raj, P. P., Singh, P., Regan, K. M., Ohlweiler, D.: Differential Peripheral Nerve Block by Local Anesthetics in the Cat, **60:** 28
Forestner, J. E.: Ipsilateral Mydriasis Following Carotid-artery Puncture during Attempted Cannulation of the Internal Jugular Vein, **52:** 438
Forget, G., *see* Perreault, L.
Forrest, W. H., Jr.: A Collaborative Clinical Trial on Trial, **56:** 249
Forrest, W. H., Jr. (ed.), *see* Hirsh, R. A. (ed.)
Forster, A., Gamulin, Z., Morel, D., Weiss, V., Rouge, J.-Cl.: Respiratory Depression Following Orally Administered Flunitrazepam for Preanesthetic Medication in Children, **61:** 597
Forster, A., Gardaz, J.-P., Suter, P. M., Gemperle, M.: Respiratory Depression by Midazolam and Diazepam, **53:** 494
Forster, A., Juge, O., Morel, D.: Effects of Midazolam on Cerebral Blood Flow in Human Volunteers, **56:** 453
Forster, A., *see* Gamulin, Z.
Forsythe, M. J., *see* Moore, R. A.
Foster, J., *see* Niederlehner, J. R.; *also see* Rowlingson, J. C.
Fouad, F. M., *see* Estafanous, F. G.
Fournier, S., *see* Reves, J. G.
Fowler, K. C., *see* Gelman, S.
Fowlow, S. B., *see* Brownell, A. K. W.
Fox, G. S., *see* Fisher, J. T.
Fox, M. A.: Atracurium in Normal Doses May Release Histamine, **60:** 386
Fragen, R. J., Shanks, C. A., Molteni, A., Avram, M. J.: Effects of Etomidate on Hormonal Responses to Surgical Stress, **61:** 652
Francis, C. M., *see* Lowenstein, E.
Frank, L. P.: What's a Gram-meter, **58:** 297
Frankel, D. Z. N.: Adhesive Tape Obstructing an Anesthetic Circuit, **59:** 256
Frankenberry, M. J., *see* MacMurdo, S. D.
Frankhouser, P. L.: Double, Double: Arrow Introducer Kits are Self-Sealing, **57:** 429
Frankhouser, P. L.: Reply to: Hazard of a New Epidural Catheter, **58:** 293
Frasquet, F. J., Belda, F. J.: Permanent Paralysis of C-5 after Cannulation of the Internal Jugular Vein, **54:** 528
Frazer, B. M., *see* Roizen, M. F.
Freiberger, J. J.: An Unusual Presentation of an Airway Tear, **61:** 204
Freund, P. R., Radke, H. M.: Intraoperative Explosion: Methane Gas and Diet, **55:** 700
Freund, P. R., Radke, H. M.: Reply to: Etiologic Factors in Determining Explosive Colonic Gas Mixtures, **58:** 196
Freund, P. R., Ward, R. J.: Drug Packaging Invites Confusion, **55:** 87
Frewen, T., *see* Fisher, D. M.
Friedman, A., *see* Reiz, S.
Friedman, G. A.: N_2O and Prevention of Tension Pneumocephalus after Craniotomy, **58:** 196
Friendly, D. S., *see* Abramowitz, M. D.
Friesen, C., *see* Brownell, A. K. W.
Friesen, R. H.: Baroresponse and Cardiovascular Depression by Halothane in Infants, **58:** 387
Friesen, R. H.: Hepatitis B Markers in Pediatric Anesthesia Personnel, **61:** 622
Frison, B., *see* Villers, D.
From, R., George, G. P., Tinker, J. H.: Foregger 705® Malfunction Resulting in Loss of Gas Flow, **61:** 321
Frost, E., *see* Kumar, A.
Frost, E. A. M.: N_2O and Intraoperative Tension Pneumocephalus, **58:** 197
Frost, E. A. M., *see* Thiagarajah, S.
Frumin, M. J., Cusick, J. F., Myklebust, J., Abram, S.: The Dorsal Root Ganglion as a Site of Blockade during Epidural Anesthesia, **54:** 524
Fuchs, E., *see* Bennett, M. J.
Fudeta, H., *see* Yasuda, I.
Fuentes, T., *see* Miralles, F. S.
Fujii, K., *see* Morio, M.
Fujii, S., *see* Oshita, S.; *also see* Sakabe, T.
Fujioka, H., *see* Shimoji, K.
Fukazawa, T., *see* Shimoji, K.
Fukuda, S., Inomata, I., Tsuji, T., Takeshita, H.: Thiopental Potentiation of Isolated Rabbit Pulmonary Artery Contractions with Alpha Receptor Agonists, **60:** 187
Fukuda, S., Takeshita, H., Toda, N.: Modifications by Lidocaine and Its N-Dealkylated Metabolites of the Response of the Isolated Rabbit Aorta to Transmural Electrical Stimulation, **53:** 106
Fukui, T., Hameroff, S. R., Gandolfi, A. J.: Alpha-1-acid Glycoprotein and Beta-endorphin Alterations in Chronic Pain Patients, **60:** 494
Fukui, Y., Smith, N. T.: Interactions among Ventilation, the Circulation, and the Uptake and Distribution of Halothane—Use of a Hybrid Computer Multiple Model: I. The Basic Model, **54:** 107
Fukui, Y., Smith, N. T.: Interactions among Ventilation, the Circulation, and the Uptake and Distribution of Halothane—Use of a Hybrid Computer Multiple Model: II. Spontaneous *vs.* Controlled Ventilation, and the Effects of CO_2, **54:** 119
Funatsu, N., *see* Ishikawa, T.
Funch, R. S., *see* Shupak, R. C.
Furgiuele, J. J., *see* Berman, J. A.
Furman, E. B., *see* Morgan, S. F.
Furman, W. R., *see* Miller, C. F.
Furuta, T., *see* Goromaru, T.
Furuya, H., Okumura, F.: Detection of Paradoxical Air Embolism by Transesophageal Echocardiography, **60:** 374
Furuya, H., Suzuki, T., Okumura, F., Kishi, Y., Uefuji, T.: Echocardiographic Detection of Air Embolism, **58:** 124
Fusciardi, J., *see* Coriat, P.; *also see* Rouby, J. J.

G

Gadde, P., *see* Dubois, M.
Gagnon, R. L., *see* Alfery, D. D.; *also see* Rockoff, M. A.
Gaines, G. Y., III, Rees, D. I.: Ventilator Malfunction—Another Cause, **60:** 260
Gal, T. J.: Effects of Endotracheal Intubation on Normal Cough Performance, **52:** 324
Gal, T. J.: Pulmonary Mechanics in Normal Subjects Following Endotracheal Intubation, **52:** 27
Gal, T. J., DiFazio, C. A.: Ventilatory and Analgesic Effects of Dezocine in Humans, **61:** 716
Gal, T. J., DiFazio, C. A., Moscicki, J.: Analgesic and Respiratory Depressant Activity of Nalbuphine: A Comparison with Morphine, **57:** 367
Gal, T. J., Goldberg, S. K.: Relationship Between Respiratory Muscle Strength and Vital Capacity during Partial Curarization in Awake Subjects, **54:** 141
Galindo, A., Gissen, A. J.: Conclusions Concerning "Differential Sensitivities of Nerve Fibers to Local Anesthetics" May Not Be Justified, **55:** 482
Gallagher, J. D., Lieberman, R. W., Meranze, J., Spielman, S. R., Ellison, N.: Amiodarone-induced Complications during Coronary Artery Surgery, **55:** 186
Gallagher, J. D., *see* Moore, R. A.
Gallagher, M. J., Muller, B. J.: Tension Pneumothorax During Pediatric Bronchoscopy, **55:** 685
Gamo, S., Ogaki, M., Nakashima-Tanaka, E.: Strain Differences in Minimum Anesthetic Concentrations in *Drosophila melanogaster*, **54:** 289
Gamulin, Z., Forster, A., Morel, D., Simonet, F., Aymon, E., Favre, H.: Effects of Infrarenal Aortic Cross-clamping on Renal Hemodynamics in Humans, **61:** 394
Gamulin, Z., *see* Forster, A.
Gancher, S., Laxer, K. D., Krieger, W.: Activation of Epileptogenic Activity by Etomidate, **61:** 616

Gandhi, S., Dhamee, M. S.: Oral Airway in Detachment of Esophageal Stethoscope Cuff, **58:** 202
Gandhi, S. K., Reynolds, A. C.: A Modification of Allen's Test to Detect Aberrant Ulnar Collateral Circulation, **59:** 147
Gandolfi, A. J., *see* Bentley, J. B.; *also see* Fukui, T.; Lind, R. C.; Maiorino, R. M.
Ganfield, R. A., Chapin, J. W.: Pneumothorax with Upper Airway Laser Surgery, **56:** 398
Ganong, W. F.: Review of Medical Physiology, **52:** 197
Gardaz, J. P., Perez-Chada, D., Sykes, M. K.: Oxygenation during Mechanical Ventilation in Goats, **56:** 491
Gardaz, J.-P., *see* Forster, A.
Gardner, R. M.: Direct Blood Pressure Measurement—Dynamic Response Requirements, **54:** 227
Gardner, R. M., Parker, J.: Simplified Pulmonary Artery/Right Atrial Pressure Monitoring System, **54:** 353
Gardner, R. M., Parker, J., Wong, H. C.: Preoperative Invasive Monitoring and Coronary-artery Disease, **52:** 525
Gardner, S., *see* Gross, J. B.
Garfield, J. M., Vivaldi, E.: Effects of Halothane and Enflurane on Schedule-controlled Behavior in the Rat, **59:** 207
Garibaldi, R. A., Britt, M. R., Webster, C., Pace, N. L.: Failure of Bacterial Filters to Reduce the Incidence of Pneumonia after Inhalation Anesthesia, **54:** 364
Garlington, L., Neff, W. B.: A Simple In-circuit Vaporizer for Closed-circuit Anesthesia, **54:** 434
Garner, L., *see* Woodside, J., Jr.
Gassner, A., *see* Neumark, J.
Gatha, M. N., *see* Bassell, G. M.
Gautero, H., *see* Goldfarb, G.
Gaylor, M., *see* Coombs, D. W.
Geer, R. T., *see* Berry, A. J.; *also see* Marshall, B. E.
Gehrig, J. D., *see* Chapman, C. R.
Gelb, A.: Benzodiazepines and Polymorphonuclear Leukocyte Oxidative Activity, **61:** 632
Gelb, A. W., *see* Knill, R. L.
Geller, E., *see* Lebowitz, P. W.
Gelman, S.: Anesthesia-Induced Hepatotoxicity, **59:** 487
Gelman, S., Fowler, K. C., Smith, L. R.: Liver Circulation and Function during Isoflurane and Halothane Anesthesia, **61:** 726
Gelman, S., Patel, K.: Hypertension Following Nitroprusside and Hepatic Blood Flow, **54:** 90
Gemperle, M., *see* Forster, A.
Gencarelli, P., *see* Cronnelly, R.; *also see* Fahey, M. R.
Gencarelli, P. J., Miller, R. D., Eger, E. I., II, Newfield, P.: Decreasing Enflurane Concentrations and *d*-Tubocurarine Neuromuscular Blockade, **56:** 192
Gencarelli, P. J., Roizen, M. F., Miller, R. D., Joyce, J., Hunt, T. K., Tyrrell, J. B.: ORG NC45 (Norcuron™) and Pheochromocytoma: A Report of Three Cases, **55:** 690
Gencarelli, P. J., Swen, J., Koot, H. W. J., Miller, R. D.: The Effects of Hypercarbia and Hypocarbia on Pancuronium and Vecuronium Neuromuscular Blockades in Anesthetized Humans, **59:** 376
Gencarelli, P. J., *see* Rupp, S. M.
George, G. P., *see* From, R.
George, R. B., Light, R. W., Matthay, R. A.: Chest Medicine, **61:** 233
George, T. M.: Failure of Keyed Agent-specific Filling Devices, **61:** 228
Gephardt, S. A., *see* Roesch, R. P.
Gergis, S. D., *see* Carter, J. G.; *also see* Mehta, M. P.; Sokoll, M. D.
Gerlach, R., *see* Chapman, C. R.
Germain, M., *see* Catchlove, R. F. H.
Gerson, J. I., *see* Joyce, J. T.
Gesztes, T., *see* Greenberg, L.
Ghani, G. A., Berry, A. J.: Right Hydrothorax after Left External Jugular Vein Catheterization, **58:** 93
Ghani, G. A., *see* Berry, A. J.
Gharib, C., *see* Annat, G.
Gherli, T., *see* Damen, J.
Ghesquiere, F., *see* Clergue, F.
Ghia, J. N., *see* Alexander, C.; *also see* DeBoard, J. W.; Kafer, E. R.; Spielman, F. J.; Teeple, E.
Ghignone, M., Girling, L., Prewitt, R. M.: Effects of Hydralazine on Cardiopulmonary Function in Canine Low-pressure Pulmonary Edema, **59:** 187
Ghignone, M., Girling, L., Prewitt, R. M.: Volume Expansion *versus* Norepinephrine in Treatment of a Low Cardiac Output Complicating an Acute Increase in Right Ventricular Afterload in Dogs, **60:** 132
Ghignone, M., *see* Prewitt, R. M.
Ghoneim, M. M., Bidwai, A. V., Stanley, T. H.: Antagonism of Diazepam by Physostigmine, **52:** 372
Ghoneim, M. M., *see* Korttila, K.
Gibbs, C., Arandia, H.: A New Technique for Location and Cannulation of the Internal Jugular Vein, **54:** 89
Gibbs, C. P., Banner, T.: Reply to: Neutralizing Capacity of Particulate Antacids, **58:** 592
Gibbs, C. P., Banner, T. C.: Effectiveness of Bicitra® as a Preoperative Antacid, **61:** 97
Gibbs, C. P., Rolbin, S. H., Norman, P.: Cause and Prevention of Maternal Aspiration, **61:** 111
Gibbs, C. P., Spohr, L., Schmidt, D.: The Effectiveness of Sodium Citrate as an Antacid, **57:** 44
Gibbs, C. P., *see* Hodgkinson, R.; *also see* James, C. F.
Giesecke, A. H., Hilley, M. D.: Reply, **61:** 792
Giesecke, A. H., *see* Hilley, M. D.
Giffin, J. P., Cottrell, J. E., Shwiry, B., Hartung, J., Epstein, J., Lim, K.: Intracranial Pressure, Mean Arterial Pressure, and Heart Rate Following Midazolam or Thiopental in Humans with Brain Tumors, **60:** 491
Giffin, J. P., *see* O'Neill, J. E.
Giger, U., Kaplan, R. F.: Halothane and Platelet ATP, **58:** 347
Giger, U., Kaplan, R. F.: Reply to: Malignant Hyperthermia: Platelet Bioassay, **60:** 266
Gil, K. S. L., *see* Miletich, D. J.
Gilbert, J., *see* Babinski, M. F.
Gilboe, D. D., *see* Fitzpatrick, J. H., Jr.
Gildar, J. S.: Simple System for Transtracheal Ventilation, **58:** 106
Gill, G. V., *see* Elliott, M. J.
Gillett, G. B., Watson, J. D., Langford, R. M.: Prophylaxis against Acid Aspiration Syndrome in Obstetric Practice, **60:** 525
Gillette, M. T. (ed.), *see* Lebowitz, P. W. (ed.)
Gillman, M. A., Footerman, D. S.: The Need for a Clearer Distinction between Anesthesia and Analgesia in Relation to the Opiate System, **54:** 524
Gillman, M. A., Footerman, D. S., Lichtigfeld, F. J.: Nitrous Oxide As an Anti-stress Agent, **56:** 234
Gillman, M. A., Lichtigfeld, F. J.: Naloxone and Its Analeptic Effect, **58:** 287
Gillman, M. A., Lichtigfeld, F. J.: Nitrous Oxide Interacts with Opioid Receptors, **58:** 483
Gilly, H., *see* Zimpfer, M.
Gilroy, B. A.: Humaneness of Anesthetic Induction Technique Questioned, **59:** 260
Gingerich, R., Wright, P. H., Paradise, R. R.: Effects of Halothane on Glucose-stimulated Insulin Secretion and Glucose Oxidation in Isolated Rat Pancreatic Islets, **53:** 219
Gintautas, J. G., *see* Kraynack, B. J.; *also see* Warren, P. R.
Gionfriddo, M. A., *see* Savarese, J. J.; *also see* Goudsouzian, N. G.
Giovannitti, J. A., *see* Hilley, M. D.
Girard, M., *see* Perreault, L.
Girling, L., *see* Ghignone, M.
Gissen, A. J., Covino, B. G., Gregus, J.: Differential Sensitivities of Mammalian Nerve Fibers to Local Anesthetic Agents, **53:** 467
Gissen, A. J., *see* Galindo, A.
Gisvold, S. E., Safar, P., Hendrickx, H. H. L., Rao, G., Moossy, J., Alexander, H.: Thiopental Treatment after Global Brain Ischemia in Pigtailed Monkeys, **60:** 88
Gjerris, F., *see* Astrup, J.
Gladines, M. P., *see* Burm, A. G.
Glass, P. S. A.: Respiratory Depression Following Only 0.4 mg of Intrathecal Morphine, **60:** 256
Glassenberg, R., *see* Hodgkinson, R.
Glasser, S. A., Domino, K. B., Lindgren, L., Parcella, P., Marshall, C., Marshall, B. E.: Pulmonary Blood Pressure and Flow during Atelectasis, **58:** 225
Glasser, S. A., *see* Domino, K. B.
Glauber, D. T., *see* Hornbein, T. F.

Glick, J. H., *see* LaMantia, K. R.
Glick, R. V.: An Unusual Cause for Increased Resistance to Injection during Administration of Spinal Anesthesia, **57:** 64
Glinsman, D., Pavlin, E. G.: Airway Obstruction after Nasal-Tracheal Intubation, **56:** 229
Glisson, S. N., *see* Gorski, D. W.
Gloyna, D. F., *see* Priano, L. L.
Glynn, C. J., Mather, L. E., Cousins, M. J., Graham, J. R., Wilson, P. R.: Peridural Meperidine in Humans: Analgetic Response, Pharmacokinetics, and Transmission into CSF, **55:** 520
Glynn, C. J., *see* Gourlay, G. K.; *also see* Lillie, P. E.
Goddard, R. H., *see* Sellers, W. F. S.
Goebelsmann, U., *see* Abboud, T. K.
Goethe, J., *see* Graybar, G.
Goetter, C., *see* Jones, D. E.
Gold, M. I., Muravchick, S., Riccio, M. F.: Defect in a T-fitting Connection, **52:** 184
Gold, M. I., *see* Andritsch, R. F.; *also see* Jain, U.; Muravchick, S.; Schwam, S. J.
Goldberg, M.: Systemic Reactions to Intravascular Contrast Media: A Guide for the Anesthesiologist, **60:** 46
Goldberg, M., Colonna-Romano, P., Babins, N. A.: Emergency Coronary Artery Bypass Surgery Following Intracoronary Streptokinase, **61:** 601
Goldberg, S. K., *see* Gal, T. J.
Goldfarb, G., Belghiti, J.: Reply, **61:** 633
Goldfarb, G., Belghiti, J., Gautero, H., Boivin, P.: *In Vitro* Effect of Benzodiazepines on Polymorphonuclear Leukocyte Oxidative Activity, **60:** 57
Goldfarb, G., Lebrec, D.: Percutaneous Cannulation of the Internal Jugular Vein in Patients with Coagulopathies: An Experience Based on 1,000 Attempts, **56:** 321
Goldiner, P. L., Rooney, S.-M.: In Defense of Restricting Oxygen in Bleomycin-treated Surgical Patients, **61:** 225
Goldiner, P. L., Rooney, S-M.: Modified Oral Airway for Fiberoptic Bronchoscopes, **60:** 506
Goldman, E., McDonald, J. S.: Continuous Oxygenation during Nasotracheal Intubation, **61:** 352
Goldman, E., Sherrill, D., De Campo, T., Aldrete, J. A.: Calibration Curves of Enflurane Using the Beckman LB2® Gas Analyzer with the Halothane Head, **53:** 79
Goldman, M. J.: Principles of Clinical Electrocardiography, **52:** 195
Goldsmith, C. H., *see* Dunn, G. L.
Goldsmith, S., *see* Horrigan, R. W.
Goldstein, M. F., *see* Campbell, F. W.
Golladay, E. S., *see* Ashcraft, K. E.
Gómez-Arnau, J., Márquez-Montes, J., Avello, F.: Fentanyl and Droperidol Effects in Wolff-Parkinson-White Syndrome, **58:** 307
Gonzalez-Abola, E., *see* Chang, J.-L.
Goodman, L. R., Putnam, C. F.: Intensive Care Radiology: Imaging of the Critically Ill, Second Edition, **60:** 268
Gordon, E., *see* Sollevi, A.
Gordon, L. H., *see* Brown, M.; *also see* Wyrobek, A. J.
Gordon, R. J., Ravin, M. B., Daicoff, G. R.: Cardiovascular Physiology for Anesthesiologists, **52:** 459
Goromaru, T., Matsuura, H., Yoshimura, N., Miyawaki, T., Sameshima, T., Miyao, J., Furuta, T., Baba, S.: Identification and Quantitative Determination of Fentanyl Metabolites in Patients by Gas Chromatography–Mass Spectrometry, **61:** 73
Gorski, D. W., Rao, T. L. K., Glisson, S. N., Chinthagada, M., El-Etr, A. A.: Epidural Triamcinolone and Adrenal Response to Hypoglycemic Stress in Dogs, **57:** 364
Gorski, D. W., Rao, T. L. K., Scarff, T. B.: Airway Obstruction Following Surgical Manipulation of the Posterior Cranial Fossa, an Unusual Complication, **54:** 80
Gorsky, B. H.: Pain, Origin and Treatment, **57:** 72
Gothard, J. W. W., Branthwaite, M. A.: Anaesthesia for Thoracic Surgery, **58:** 304
Gotdieb, I., *see* Hedenstierna, G.
Gottschau, A., *see* Howardy-Hansen, P.
Goudsouzian, N., Coté, C. J., Liu, L. M. P., Dedrick, D. F.: The Dose-Response Effects of Oral Cimetidine on Gastric *p*H and Volume in Children, **55:** 533
Goudsouzian, N. G., Liu, L. M. P.: The Neuromuscular Response of Infants to a Continuous Infusion of Succinylcholine, **60:** 97
Goudsouzian, N. G., Liu, L. M. P., Coté, C. J., Gionfriddo, M., Rudd, G. D.: Safety and Efficacy of Atracurium in Adolescents and Children Anesthetized with Halothane, **59:** 459
Goudsouzian, N. G., *see* Allen, E. M.; *also see* Coté, C. J.; Liu, L. M. P.; Martyn, J. A. J.; Rockoff, M. A.
Gould, A. B., Jr., *see* Byer, D. E.
Gourlay, G. K., Adams, J. F., Cousins, M. J., Hall, P.: Genetic Differences in Reductive Metabolism and Hepatotoxicity of Halothane in Three Rat Strains, **55:** 96
Gourlay, G. K., Willis, R. J., Wilson, P. R.: Postoperative Pain Control with Methadone: Influence of Supplementary Methadone Doses and Blood Concentration-Response Relationships, **61:** 19
Gourlay, G. K., Willis, R. J., Wilson, P. R.: Reply to: Methadone Titration to Avoid Excessive Respiratory Depression, **59:** 364
Gourlay, G. K., Wilson, P. R., Glynn, C. J.: Pharmacodynamics and Pharmacokinetics of Methadone during the Perioperative Period, **57:** 458
Gourlay, G. K., *see* Cousins, M. J.
Goutalier, D., *see* Samii, K.
Goyette, R. E.: Assuring Proper Drug Dosage, **58:** 202
Graedel, E., *see* Skarvan, K.
Graham, D. H.: Monitoring Neuromuscular Block May be Unreliable in Patients with Upper-motor-neuron Lesions, **52:** 74
Graham, D. H.: Standing Bellows Ventilators and Low-flow Techniques, **58:** 486
Graham, J. R., *see* Glynn, C. J.
Gramling, Z. W., *see* Mote, P. S.
Graney, W. F., *see* Brown, C. Q.
Grant, W. M., *see* James, F. M., III
Grant, W. T., *see* Dewan, D. M.
Granwehr, J. A.: Monitoring during Cardiopulmonary Bypass, **55:** 338
Gravenstein, J. S., *see* Berger, J. J.
Gravenstein, J. S. (ed.), Newbower, R. S. (ed.), Ream, A. K. (ed.), Smith, N. T. (ed.): Essential Noninvasive Monitoring in Anesthesia, **54:** 357
Gravenstein, J. S. (ed.), *see* Grundy, L. (ed.)
Graves, S. A., *see* Stone, D. R.
Gravlee, G. P., *see* Johnston, W. E.
Gray, R., *see* Sethna, D.
Gray, T. C. (ed.), Nunn, J. F. (ed.), Utting, J. E. (ed.): General Anesthesia, **53:** 526
Graybar, G., Goethe, J., Levy, T., Phillips, J., Youngberg, J., Smith, D.: Transient Large Upright T-Wave on the Electrocardiogram during Multiple Monitored Electroconvulsive Therapy, **59:** 467
Graybar, G. B., *see* Weng, J. T.
Green, C., *see* Mahla, M. E.
Green, D., *see* Kissin, I.
Green, O., *see* Stanley, T. H.
Greenberg, D. J., *see* Brown, D. L.
Greenberg, J., *see* Young, M. L.
Greenberg, L., Ovnat, A., Peiser, J., Charuzi, I., Gesztes, T.: Continuous Pharyngeal Suction during Surgery, **60:** 82
Greenblatt, D. J., Abernethy, D. R., Locniskar, A., Harmatz, J. S., Limjuco, R. A., Shader, R. I.: Effect of Age, Gender, and Obesity on Midazolam Kinetics, **61:** 27
Greenblatt, D. J., Locniskar, A., Ochs, H. R., Lauven, P. M.: Automated Gas Chromatography for Studies of Midazolam Pharmacokinetics, **55:** 176
Greenblatt, D. J., *see* Vinik, H. R.
Greenburg, G. A., *see* Dueck, R.
Greene, N. M.: Dural Diffusion of Local Anesthetics, **60:** 619
Greene, N. M.: Key Words in Anesthesiology, **54:** 176
Greene, N. M.: Physiology of Spinal Anesthesia, Third Edition, **56:** 243
Greenfeld, A. L., Rosenberg, H.: Succinylcholine Infusion May Cause Asystole, **52:** 378
Greenhow, D. E., *see* Jobes, D. R.
Gregoretti, S. M., Sohn, Y. J., Sia, R. L.: Heart Rate and Blood Pressure Changes after ORG NC45 (Vecuronium) and Pancuronium during Halothane and Enflurane Anesthesia, **56:** 392
Gregory, G. A., Steward, D. J.: Life-threatening Perioperative Apnea in the Ex-"premie", **59:** 495

Gregory, G. A., *see* Fisher, D. M.; *also see* Lerman, J.; Palmisano, B. W.; Ware, R. E.; Wear, R.
Gregory, G. A. (ed.): Respiratory Failure in the Child, Clinics in Critical Care Medicine, Volume 3, **57:** 559
Gregus, J., *see* Gissen, A. J.
Greiss, F. C., Jr., *see* Wheeler, A. S.
Griffin, J. P., *see* Hartung, J.
Grina, L. A., *see* Dyck, P. J.
Gristina, G., *see* Saitto, C.
Grobecker, H., *see* Joyce, J. T.
Grodins, F. S., Yamashiro, S. M.: Respiratory Function of the Lung and Its Control, **53:** 182
Grogono, A. W.: Averaging *p*H *vs.* H^+ Values, an Irrelevant Debate, **53:** 85
Gronert, G., *see* Shulman, M.
Gronert, G. A.: A Possible Mechanism of Succinylcholine-induced Hyperkalemia, **53:** 356
Gronert, G. A.: Controversies in Malignant Hyperthermia, **59:** 273
Gronert, G. A.: Disuse Atrophy with Resistance to Pancuronium, **55:** 547
Gronert, G. A.: Malignant Hyperthermia, **53:** 395
Gronert, G. A.: Puzzles in Malignant Hyperthermia, **54:** 1
Gronert, G. A.: Reply to: Relaxant Resistance in Disuse Atrophy: Pharmacokinetics *vs.* Pharmacodynamics, **57:** 142
Gronert, G. A., Michenfelder, J. D., Sharbrough, F. W., Milde, J. H.: Canine Cerebral Metabolic Tolerance during 24 Hours Deep Pentobarbital Anesthesia, **55:** 110
Gronert, G. A., Michenfelder, J. D., Steen, P. A., Milde, J. H.: Canine Tolerance during Pentobarbital Anesthesia, **58:** 18
Gronert, G. A., *see* Adams, R. W.; *also see* Artru, A. A.; Lennon, R. L.
Gross, J. B.: Estimating Allowable Blood Loss: Corrected for Dilution, **58:** 277
Gross, J. B.: Resting Ventilation Measurements May Be Misleading, **61:** 110
Gross, J. B., Caldwell, C. B., Shaw, L. M., Apfelbaum, J. L.: The Effect of Lidocaine Infusion on the Ventilatory Response to Hypoxia, **61:** 662
Gross, J. B., Caldwell, C. B., Shaw, L. M., Laucks, S. O.: The Effect of Lidocaine on the Ventilatory Response to Carbon Dioxide, **59:** 521
Gross, J. B., Smith, L., Smith, T. C.: Time Course of Ventilatory Response to Carbon Dioxide after Intravenous Diazepam, **57:** 18
Gross, J. B., Zebrowski, M. E., Carel, W. D., Gardner, S., Smith, T. C.: Ventilatory Depression after Thiopental and Midazolam in Chronic Obstructive Pulmonary Disease, **58:** 540
Gross, J. B., *see* Ben-David, B.; *also see* Caldwell, C. B.; Hagerdal, M.; Spaulding, B. C.
Gross, T. L., Kuhnert, P. M., Kuhnert, B. R., Pimental, R.: Plasma Levels of 2-Chloroprocaine and the Lack of Sequelae Following an Apparent Inadvertent Intravenous Injection, **54:** 173
Gross, T. L., *see* Kuhnert, B. R.; *also see* Kuhnert, P. M.
Grubb, R. L., Jr., Raichle, M. E.: Effects of Hemorrhagic and Pharmacologic Hypotension on Cerebral Oxygen Utilization and Blood Flow, **56:** 3
Grundfast, K. M., *see* Kanter, R. K.
Grundy, B. L.: Intraoperative Monitoring of Evoked Potentials, **58:** 72
Grundy, B. L., Chapman, C. R., Benedetti, C.: Methodology for Studying Cerebral Evoked Potentials Challenged, **52:** 286
Grundy, B. L., Nash, C. L., Jr., Brown, R. H.: Arterial Pressure Manipulation Alters Spinal Cord Function during Correction of Scoliosis, **54:** 249
Grundy, B. L., Nelson, P. B., Doyle, E., Procopio, P. T.: Intraoperative Loss of Somatosensory-evoked Potentials Predicts Loss of Spinal Cord Function, **57:** 321
Grundy, B. L., Sanderson, A. C., Webster, M. W., Richey, E. T., Procopio, P., Karanjia, P. N.: Hemiparesis Following Carotid Endarterectomy: Comparison of Monitoring Methods, **55:** 462
Grundy, B. L., Spetzler, R. F.: Subdural Pneumoencephalus Resulting from Drainage of Cerebrospinal Fluid during Craniotomy, **52:** 269
Grundy, L. (ed.), Gravenstein, J. S. (ed.): The Quality of Care in Anesthesia, **58:** 207
Guenter, C. A., Welch, M. H.: Pulmonary Medicine, Second Edition, **58:** 111
Guerra, F.: Ketamine May Exacerbate Psychiatric Illness, **53:** 177
Guilford, W. B., *see* DeBoard, J. W.
Guinee, W. S., *see* Ashcraft, K. E.
Gupta, B., *see* Wangler, M. A.
Gutsche, B. B., *see* Hägerdal, M.; *also see* Kenepp, N. B.; Morishima, H. O.
Guyton, R. A., *see* Kates, R. A.
Gwartz, B., *see* Bourke, D. L.

H

Haberer, J.-P., *see* Dalens, B.
Hadj Aissa, O., *see* Annat, G.
Hagen, J. F., *see* Pinchak, A. C.
Hagerdal, M., Caldwell, C. B., Gross, J. B.: Intraoperative Fluid Management Influences Carbon Dioxide Production and Respiratory Quotient, **59:** 48
Hägerdal, M., Morgan, C. W., Sumner, A. E., Gutsche, B. B.: Minute Ventilation and Oxygen Consumption during Labor with Epidural Analgesia, **59:** 425
Hägerdal, M., *see* Keykhak, M. M.
Hagins, F. M., *see* Park, W. Y.
Hahn, C. E. W., *see* Adams, A. P.
Haider, W., Eckersberger, F., Wolner, E.: Preventive Insulin Administration for Myocardial Protection in Cardiac Surgery, **60:** 422
Hajj, S., *see* Baraka, A.
Hakala, M. W., *see* Marshall, W. K.
Hall, P., *see* Gourlay, G. K.; *also see* Plummer, J. L.
Hall, P. de la M., *see* Cousins, M. J.
Halldin, M., *see* Stänge, K.
Hallén, B., Uppfeldt, A.: Does Lidocaine-Prilocaine Cream Permit Painfree Insertion of IV Catheters in Children, **57:** 340
Halter, J. B., *see* Pflug, A. E.
Ham, J., Stanski, D. R., Newfield, P., Miller, R. D.: Pharmacokinetics and Dynamics of *d*-Tubocurarine during Hypothermia in Humans, **55:** 631
Ham, J. A., *see* Scappaticci, K. A.; *also see* Stanski, D. R.; White, P. F.
Ham, J. (ed.), *see* Wilkenson, P. L. (ed.)
Hamamoto, V., *see* Fairhurst, A. S.
Hameroff, S. R., Calkins, J. M., Waterson, C. K., Kanel, J. S.: High-frequency Alternating Lung Ventilation, **54:** 237
Hameroff, S. R., *see* Bentley, J. B.; *also see* Blitt, C. D.; Fukui, T.; Mylrea, K. C.; Otto, C. W.; Stiffel, P.
Hamill, J. F., Bedford, R. F., Weaver, D. C., Colohan, A. R.: Lidocaine before Endotracheal Intubation: Intravenous or Laryngotracheal, **55:** 578
Hamill, J. F., *see* White, P. F.
Hamilton, W. K., Larson, C. P., Jr.: Stuart C. Cullen, **52:** 111
Hamilton, W. K., *see* Feeley, T. W.; *also see* Roizen, M. F.; Turnbull, K. W.
Hanifin, J. M., *see* Hermens, J. M.
Hannallah, R. S., Abramowitz, M. D., Oh, T. H., Ruttimann, U. E.: Residents' Attitudes Toward Parents' Presence during Anesthesia Induction in Children: Does Experience Make a Difference, **60:** 598
Hannallah, R. S., McGill, W. A.: A Practical Way of Using Heated Humidifiers with Pediatric T-piece Systems, **59:** 156
Hannenberg, A. A.: An Atraumatic Method for Topical Application of Local Anesthetics to the Nasal Mucosa, **59:** 606
Hannenberg, A. A., Satwicz, P. R., Dienes, R. S., Jr., O'Brien, J. C.: A Device for Applying CPAP to the Nonventilated Upper Lung during One-lung Ventilation. II, **60:** 254
Hanning, C. D. (ed.), *see* Ledingham, I. M. (ed.)
Hanowell, S. T., Kim, Y. D., Rattan, V., MacNamara, T.: Increased Heparin Requirement with Hypereosinophilic Syndrome, **55:** 450
Hansen, J. E., Reinhold, P., Wendt, M.: Another Aid for Nasotracheal Intubation, **60:** 620
Hantler, C. B., Knight, P. R.: Intracranial Hypertension Following Cross-clamping of the Thoracic Aorta, **56:** 146

Harari, A., *see* Clergue, F.
Harbison, R. D., *see* Wood, M.
Hard, C., Nargozian, C. D.: Iatrogenic Airway Foreign Body, **61:** 786
Harf, A., *see* Lemaire, F.
Harken, A., *see* Domino, K. B.
Harmatz, J. S., *see* Greenblatt, D. J.
Harp, J. R., *see* Berntman, L.; *also see* Carlsson, C.; Keykhak, M. M.; Shupak, R. C.; Young, M. L.
Harper, M. H., Collins, P., Johnson, B., Eger, E. I., II, Biava, C.: Hepatic Injury Following Halothane, Enflurane, and Isoflurane Anesthesia in Rats, **56:** 14
Harper, M. H., *see* Koblin, D. D.
Harrington, J., Raphaely, R. C., Downes, J. J.: Relationship of Alveolar-Arterial Oxygen Tension Difference in Diaphragmatic Hernia of the Newborn, **56:** 473
Harrington, J. F.: An Unusual Cause of Endotracheal Tube Obstruction, **61:** 116
Harrington, J. F., *see* Ford, D. J.
Harris, D. B., *see* Stiff, J. L.
Harris, W. A., *see* Hilgenberg, J. C.
Harrison, L. J., *see* Strunin, L.
Harrison, R. A., *see* Cane, R. D.; *also see* Shapiro, B. A.
Harrison, W. K., *see* Dueck, R.
Hart, J. T., *see* Byrick, R. J.
Hartlage, P., *see* Younker, D.
Hartung, J., Cottrell, J. E., Griffin, J. P.: Absence of Evidence Is not Evidence of Absence, **58:** 298
Hartung, J., *see* Giffin, J. P.; *also see* Wolf, G. L.
Hashiba, M., *see* Morris, P. J.; *also see* Shimoji, K.
Hass, W., *see* Hawkins, R.
Hasse, J., *see* Skarvan, K.
Hasselstrøm, L. J., Mogensen, T.: Toxic Reaction of Bupivacaine at Low Plasma Concentration, **61:** 99
Hastings, P. R., Bushnell, L. S., Skillman, J. J., Weintraub, R. M., Hedley-Whyte, J.: Cardiorespiratory Dynamics during Weaning with IMV Versus Spontaneous Ventilation in Good-risk Cardiac-surgery Patients, **53:** 429
Hatangdi, V. S., *see* Thompson, K. J.
Hatano, Y., *see* Toda, N.
Hatcher, C. R., *see* Kates, R. A.
Hawes, D. D., *see* Benzon, H. T.; *also see* Ahmad, S.
Hawkins, R., Hass, W., Ransohoff, J.: Pitfalls in Measuring Regional Cerebral Glucose Utilization, **58:** 290
Hawkins, R. A., *see* Davis, D. W.
Hayes, J. K., Westenskow, D. R., Jordan, W. S.: Monitoring Anesthetic Vapor Concentrations Using a Piezoelectric Detector: Evaluation of the Engstrom Emma, **59:** 435
Head, A. S., *see* Bonneu, J. J.
Healy, G. B. (ed.), McGill, T. J. I. (ed.): Laryngo-Tracheal Problems in the Pediatric Patient, **53:** 359
Heard, S. O., Kaplan, R. F.: Neuromuscular Blockade in a Patient with Nemaline Myopathy, **59:** 598
Heath, K. R., *see* Kates, R. A.
Heath, M. L.: Bupivicaine Toxicity and Bier Blocks, **59:** 481
Heavner, J.: Reported Nerve Conduction Velocities Clarified and Confirmed, **60:** 514
Heavner, J. E., Amory, D. W.: Lidocaine and Pentylenetetrazol Seizure Thresholds in Cats Are Not Reduced after Enflurane Anesthesia, **54:** 403
Heavner, J. E., *see* Badgwell, J. M.; *also see* Colley, P. S.; Dong, W. K.
Hecker, B. R., *see* Batra, M. S.
Hedenstierna, G., Baehrendtz, S., Klingstedt, C., Santesson, J., Söderborg, B., Dahlborn, M., Bindslev, L.: Ventilation and Perfusion of Each Lung during Differential Ventilation with Selective PEEP, **61:** 369
Hedenstierna, G., Järnberg, P.-O., Gottlieb, I.: Thoracic Gas Volume Measured by Body Plethysmography during Anesthesia and Muscle Paralysis: Description and Validation of a Method, **55:** 439
Hedenstierna, G., Löfström, B., Lundh, R.: Thoracic Gas Volume and Chest-Abdomen Dimensions during Anesthesia and Muscle Paralysis, **55:** 499
Hedenstierna, G., *see* Baehrendtz, S.
Hedley-Whyte, J.: Draft Standards Are Not Acceptable References, **57:** 432
Hedley-Whyte, J., *see* Bancroft, M. L.; *also see* du Moulin, G. C.; Hastings, P. R.; Priebe, H.-J.
Hedner, T., *see* Nordberg, G.
Heerdt, M. E., *see* Mazze, R. I.
Heiman-Patterson, T., *see* Rosenberg, H.
Hein, H. A. T., Bhatia, K. N.: Another, Yet Simpler Device for the Identification of the Epidural Space, **60:** 79
Heinonen, J., *see* Mustajoki, P.
Hellman, D., *see* Flemming, D. C.
Helrich, M., *see* Etter, M. S.
Helsel, P. E., *see* Bunegin, L.
Hemady, K., *see* Baraka, A.
Hemmer, M., Viquerat, C. E., Suter, P. M., Vallotton, M. B.: Urinary Antidiuretic Hormone Excretion during Mechanical Ventilation and Weaning in Man, **52:** 395
Hempelmann, G., *see* Russ, W.
Hencz, P.: Modified Laryngoscope for Endotracheal Intubation of Neonates, **53:** 84
Henderson, R. B., *see* Hilley, M. D.
Hendrickx, H. H. L., *see* Gisvold, S. E.
Henling, C. E., Diaz, J. H.: Hypoxia Due to Cluttered Anesthesia Machine, **58:** 288
Hennis, P. J., Cronnelly, R., Sharma, M., Fisher, D. M., Miller, R. D.: Metabolites of Neostigmine and Pyridostigmine Do Not Contribute to Antagonism of Neuromuscular Blockade in the Dog, **61:** 534
Hennis, P. J., *see* Fahey, M. R.
Henriksen, E., *see* Abboud, T. K.
Henriksen, E. H., *see* Stefani, S. J.
Henschel, E. O., *see* Lutsky, I.
Hensinger, R. N., *see* Knight, P. R.
Henzel, D., *see* d'Hollander, A. A.
Henzig, D.: Insidious PEEP from a Defective Ventilator Gas Evacuation Outlet Valve, **57:** 251
Hermens, J. M., Edelstein, G., Hanifin, J. M., Woodward, W. R., Hirshman, C. A.: Inhalational Anesthesia and Histamine Release during Bronchospasm, **61:** 69
Herr, G. P., Liban, B.: Preventing Barotrauma, **60:** 260
Herr, G. P., *see* Ditchik, J.
Hershey, S. G.: The Rovenstine Inheritance—A Chain of Leadership Emery A. Rovenstine Memorial Lecture on the Occasion of the Annual Meeting of the American Society of Anesthesiologists, **59:** 453
Hess, W., *see* Schulte-Sasse, U.
Hetherington, A., Rosenblatt, R. M.: Ketamine and Paralysis Agitans, **52:** 527
Heuser, D., *see* Morris, P. J.
Hewer, C. L. (ed.), *see* Atkinson, R. S. (ed.)
Hewlett, A., *see* Skacel, P. O.
Heykants, J. J., *see* Bovill, J. G.
Heyman, H. J., *see* Ivankovich, A. D.
Hibbard, L. S., *see* Davis, D. W.
Hickey, R. F., Verrier, E. D., Baer, R. W., Vlahakes, G. J., Fein, G., Hoffman, J. I. E.: A Canine Model of Acute Coronary Artery Stenosis: Effects of Deliberate Hypotension, **59:** 226
Hicks, H. C., Hummel, J. C.: Multiorificed Balloon Catheter Ideal for Neuroanesthesia, **59:** 261
Hicks, H. C., *see* Brizgys, R. V.
Higgs, B. D., Behrakis, P. K., Bevan, D. R., Milic-Emili, J.: Measurement of Pleural Pressure with Esophageal Balloon in Anesthetized Humans, **59:** 340
Hilberman, M., Maseda, J., Stinson, E. B., Derby, G. C., Spencer, R. J., Miller, D. C., Oyer, P. E., Myers, B. D.: The Diuretic Properties of Dopamine in Patients after Open-heart Operation, **61:** 489
Hilberman, M., *see* Maseda, J.
Hilfiker, O., *see* Sonntag, H.
Hilgenberg, J. C.: Intraoperative Awareness during High-dose Fentanyl–Oxygen Anesthesia, **54:** 341
Hilgenberg, J. C.: Pulmonary Vascular Impedance, **58:** 484
Hilgenberg, J. C., Stoelting, R. K., Harris, W. A.: Hemodynamic Responses to Atracurium, **58:** 242
Hill, A. B., Bowley, C. J., Nahrwold, M. L., Knight, P. R., Kirsh, M. M., Denlinger, J. K.: Intranasal Administration of Nitroglycerin, **54:** 346
Hill, A. B., Nahrwold, M. L., de Rosayro, A. M., Knight, P. R., Jones, R. M., Bolles, R. E.: Prevention of Rigidity during Fentanyl–Oxygen Induction of Anesthesia, **55:** 452
Hill, A. B., Nahrwold, M. L., Noonan, D.,

Northrop, P.: A Comparison of Methods of Blood Withdrawal and Sample Preparation for Potassium Measurements, **53:** 60
Hill, A. B., *see* Jones, R. M.
Hill, R. D., *see* Lowenstein, E.
Hilley, M. D., Henderson, R. B., Giesecke, A. H.: Difficult Extubation of the Trachea, **59:** 149
Hilley, M. D., Milam, S. B., Giescke, A. H., Giovannitti, J. A.: Fatality Associated with the Combined Use of Halothane and Gingival Retraction Cord, **60:** 587
Hilley, M. D., *see* Giesecke, A. H.
Hills, B. A., Butler, B. D.: Air Embolism: Further Basic Facts Relevant to the Placement of Central Venous Catheters and Doppler Monitors, **59:** 163
Hindin, B. I., *see* Lavine, L. M.
Hinkle, A. J.: Neonatal Sepsis Presenting as Delayed Emergence from General Anesthesia, **57:** 412
Hinkle, A. J., Ruhland, G.: Reply, **61:** 477
Hinkle, A. J., *see* Ruhland, G.
Hinkle, J. C., *see* Doblar, D. D.
Hirakawa, M., *see* Ueda, W.
Hirano, H., *see* Sumikawa, K.
Hirano, T., *see* Yasuda, I.
Hirata, T., *see* Shimada, Y.
Hirose, Y., *see* Asari. H.
Hirsh, R. A., *see* Leventhal, S. R.
Hirsh, R. A. (ed.), Forrest, W. H., Jr. (ed.), Orkin, F. K. (ed.), Woolman, H. (ed.): Health Care Delivery in Anesthesia, **53:** 358
Hirshman, C. A.: Airway Reactivity in Humans, **58:** 170
Hirshman, C. A., Downes, H.: A Possible Undesirable Interaction of Propranolol and Atropine, **53:** 521
Hirshman, C. A., Downes, H., Butler, J.: Relevance of Plasma Histamine Levels to Hypotension, **57:** 424
Hirshman, C. A., Edelstein, G., Peetz, S., Wayne, R., Downes, H.: Mechanism of Action of Inhalational Anesthesia on Airways, **56:** 107
Hirshman, C. A., Krieger, W., Littlejohn, G., Lee, R., Julien, R.: Ketamine-Aminophylline-induced Decrease in Seizure Threshold, **56:** 464
Hirshman, C. A., Leon, D.: Ignition of an Endotracheal Tube during Laser Microsurgery, **53:** 177
Hirshman, C. A., Peters, J., Cartwright-Lee, I.: Leukocyte Histamine Release to Thiopental, **56:** 64
Hirshman, C. A., *see* Butler, J. M.; *also see* Downes, H.; Edelstein, G.; Hermens, J. M.; Koga, Y.; Vaughn, J.
Hitchcock, F., *see* Damen, J.
Hitt, B. A., *see* Raj, P. P.
Hlastala, M. P., *see* Colley, P. S.
Hodges, M. R., *see* English, J. B.
Hodgkinson, R.: Reply to: Potential Interactions between Cimetidine and Amide Local Anesthetics in Obstetrics, **60:** 508
Hodgkinson, R.: Total Spinal Block after Epidural Injection into an Interspace Adjacent to an Inadvertant Dural Perforation, **55:** 593
Hodgkinson, R., Glassenberg, R., Joyce, T. H., III, Coombs, D. W., Ostheimer, G. W., Gibbs, C. P.: Comparison of Cimetidine (Tagamet®) with Antacid for Safety and Effectiveness in Reducing Gastric Acidity before Elective Cesarean Section, **59:** 86
Hodgkinson, R., Husain, F. J.: The Duration of Effect of Maternally Administered Meperidine on Neonatal Neurobehavior, **56:** 51
Hodgkinson, R., Husain, F. J.: Unilateral Analgesia Following Epidural and Subarachnoid Block, **53:** 353
Hoff, B. H., *see* Flemming, D. C.
Hoffman, A., *see* Bunegin, L.
Hoffman, J. C.: Permanent Paralysis of the Accessory Nerve after Cannulation of the Internal Jugular Vein, **58:** 583
Hoffman, J. I. E., *see* Hickey, R. F.; *also see* Verrier, E. D.
Hoffman, S., *see* Shapiro, L.-A.
Hoffman, W. E., Albrecht, R. F., Miletich, D. J., Holland, A., Anderson, S., Seals, C.: Cerebrovascular and Metabolic Effects of SNP-induced Hypotension in Young and Aged Hypertensive Rats, **56:** 427
Hoffman, W. E., Miletich, D. J., Albrecht, R. F.: Effect of Antihypertensive Therapy on CBF, **58:** 326
Hoffman, W. E., Miletich, D. J., Albrecht, R. F., Seals, C., Jozefiak, A.: Cardiovascular and Regional Blood Flow Changes during Halothane Anesthesia in the Aged Rat, **56:** 444
Hoffman, W. E., *see* Barrera, M.; *also see* Pelligrino, D. A.
Hoien, A. O.: Another Case of Grand Mal Seizure after Fentanyl Administration, **60:** 387
Holaday, D. A., Smith, F. R.: Clinical Characteristics and Biotransformation of Sevoflurane in Healthy Human Volunteers, **54:** 100
Holaday, D. A., *see* Berman, M. L.
Holden, M. P., *see* Elliott, M. J.
Hole, P., *see* Stokke, D. B.
Holinger, L. D., *see* Rita, L.
Holland, A., *see* Hoffman, W. E.
Hollander, D., *see* Vaughan, R. W.
Holley, F. O.: Relaxant Resistance in Disuse Atrophy: Pharmacokinetics *vs.* Pharmacodynamics, **57:** 142
Holley, H. S. (ed.), *see* Echenhoff, J. E. (ed.)
Hollmén, A. I., *see* Albright, G. A.
Holm, R., *see* McMahon, D. J.
Holsey, C., *see* Wilson, R. F.
Holt, J., *see* Rasch, D. R.
Horne, P. D., *see* Elliott, M. J.
Homma, E., Collins, J. G., Kitahata, L. M., Matsumoto, M., Kawahara, M.: WDR Neuronal Suppression by Spinal Morphine, **58:** 232
Homma, E., *see* Collins, J. G.; *also see* Namiki, A.
Honda, Y., *see* Nishino, T.
Hong, K., Trudell, J. R., O'Neil, J. R., Cohen, E. N.: Metabolism of Nitrous Oxide by Human and Rat Intestinal Contents, **52:** 16
Hong, K., *see* Linde, H. W.
Hood, D. D., Mecca, R. S.: Failure to Initiate Electroconvulsive Seizures in Pretreatment with Lidocaine, **58:** 379
Hopp, F. A., *see* Seagard, J. L.
Horai, Y., *see* White, P. F.
Horiguchi, R., *see* Muneyuki, M.
Hornbein, T. F.: To Breathe or Not to Breathe, **61:** 119
Hornbein, T. F., Glauber, D. T.: Inadvertent Inspiration of Carbon Dioxide, **61:** 114
Hornbein, T. F., *see* Bishop, M. J.; *also see* Dong, W. K.
Horne, M. L., *see* Kolb, M. E.
Horowitz, N. H., Rizzoli, H. V.: Postoperative Complications of Intracranial Neurological Surgery, **59:** 613
Horrigan, R. W., Moyers, J. R., Johnson, B. H., Eger, E. I., II, Margolis, A., Goldsmith, S.: Etomidate *vs.* Thiopental with and without Fentanyl—A Comparative Study of Awakening in Man, **52:** 362
Horrigan, R. W., *see* Roizen, M. F.
Horrow, J. C.: Use of the Finger, **58:** 198
Horrow, J. C., Bartkowski, R. R.: Relaxant Potency of Pancuronium at Hypothermia, **58:** 357
Horrow, J. C., Laucks, S. O.: Coronary Air Embolism during Venous Cannulation, **56:** 212
Horrow, J. C., Laucks, S. O.: Reply to: Preventing Air Embolism While Inserting Central Catheters, **57:** 350
Hosobuchi, Y., *see* Way, W. L.
Howard, R. B., *see* Nelson, S. R.; *also see* McGill, W. A.
Howardy-Hansen, P., Viby-Mogensen, J., Gottschau, A., Skovgaard, L. T., Chræmmer-Jørgensen, B., Engbæk, J.: Tactile Evaluation of the Posttetanic Count (PTC), **60:** 372
Howardy-Hansen, P., *see* Viby-Mogensen, J.
Howe, J. R., *see* Yaksh, T. L.
Howell, R. S. C.: Low Failure Rate for Medical Gas Line Systems in United Kingdom, **54:** 526
Howland, W. S., Carlon, G. C., Scheidegger, D., Drop, L. J.: Ionized Calcium Concentration and Q-T Intervals, **52:** 452
Hoy, R. H., *see* Lilly, J. K.
Hoyle, P., *see* Wood, M.
Hoyt, J. W., *see* Bageant, R. A.
Hoyt, W. J., *see* Berry, A. J.
Huang, S. S.: Simpler Method of Nasogastric Tube Insertion, **58:** 107
Huch, A. (ed.), *see* Huch, R. (ed.)
Huch, R. (ed.), Huch, A. (ed.), Lubbers, D. W. (ed.): Transcutaneous P_{O_2}, **57:** 559
Hudson, R. J., Stanski, D. R., Burch, P. G.:

Pharmacokinetics in Methohexital and Thiopental in Surgical Patients, **59:** 215
Hudson, R. J., Stanski, D. R., Saidman, L. J., Meathe, E.: A Model for Studying Depth of Anesthesia and Acute Tolerance to Thiopental, **59:** 301
Hudson, R. J., *see* Sorbo, S.
Hug, C. C., Jr.: Improving Analgesic Therapy, **53:** 441
Hug, C. C., Jr., Murphy, M. R.: Tissue Redistribution of Fentanyl and Termination of Its Effects in Rats, **55:** 369
Hug, C. C., Jr., Murphy, M. R., Rigel, E. P., Olson, W. A.: Pharmacokinetics of Morphine Injected Intravenously into the Anesthetized Dog, **54:** 38
Hug, C. C. Jr.,, Stanski, D. R.: Reply, **61:** 106
Hug, C. C., Jr., Stanski, D. R.: Reply to: Are the Pharmacokinetics of Alfentanil Really Predictable, **59:** 257
Hug, C. C., Jr., *see* Kates, R. A.; *also see* Murphy, M. R.; Stanski, D. R.; Waller, J. L.
Hughes, S. C., *see* Amiel-Tison, C.; *also see* Stefani, S. J.
Hull, C. J., *see* Sykes, M. K.
Humble, R. M.: The Gill-Merrill Expedition: Penultimate Chapter in the Curare Story, **57:** 519
Hummel, J. C., *see* Hicks, H. C.
Humphrey, D.: Rebreathing and the Bain Circuit. I, **60:** 80
Humphrey, L. L., *see* Mylrea, K. C.
Humphrey, M., *see* Saunders, R. J.
Humphrey, M. J., Blitt, C. D.: Central Venous Access in Children Via the External Jugular Vein, **57:** 50
Hung, T. T., *see* Abboud, T. K.
Hung, T.-K., *see* Bunegin, L.
Hunt, D., *see* Berry, A. J.
Hunt, T. K., *see* Gencarelli, P. J.
Hunter, A. R., Stark, D. C. C., Miller, R.: Phlebitis *vs.* Cutaneous Vasodilatation, **52:** 188
Hurlbert, B. J., *see* Chapin, J. W.
Hurwitz, A., Fischer, H. R.: Effects of Morphine and Respiratory Depression on Sulfobromophthalein Disposition in Rats, **60:** 537
Husain, F. J., *see* Hodgkinson, R.
Husain, M. K., *see* Zubrow, A. B.
Huth, E. J.: How to Write and Publish Papers in the Medical Sciences, **59:** 170
Hüttemeir, P. C., *see* Erdmann, A. J.
Hyatt, M., Muldoon, S. M., Rorie, D. K.: Droperidol, a Selective Antagonist of Postsynaptic α-Adrenoceptors in the Canine Saphenous Vein, **53:** 281
Hyman, A. I., *see* Askanazi, J.; *also see* Damask, M. C.; Epstein, R. A.; Rosenbaum, S. H.

I

Iazzetta, J., *see* Walker, S. E.
Ibler, M.: Modification of Macintosh Laryngoscope Blade, **58:** 200
Idvall, J.: Influence of Ketamine Anesthesia on Cardiac Output and Tissue Perfusion in Rats Subjected to Hemorrhage, **55:** 297
Igler, F. O., *see* Kotrly, K. J.
Ikeda, K., *see* Masuda, T.
Ikeda, M., Dohi, T., Tsujimoto, A.: Inhibition of GABA Release from Synaptosomes by Local Anesthetics, **58:** 495
Ikeda, M., Dohi, T., Tsujimoto, A.: Protection from Local Anesthetic-induced Convulsions by γ-aminobutyric Acid, **56:** 365
Ikeda, S., Schweiss, J. F., Crowley, T. A., Barlow, A. L.: Life-threatening Similarity in Drug Packaging, **56:** 489
Imamura, A., *see* Maekawa, T.
Ingvar, M., Shapiro, H. M.: Selective Metabolic Activation of the Hippocampus during Lidocaine-Induced Pre-seizure Activity, **54:** 33
Ingvar, M., *see* Rockoff, M. A.
Inomata, I., *see* Fukuda, S.
Inoue, K., *see* Asari, H.
Irestedt, L., *see* Järnberg, P.-O.; *also see* Lagerkranser, M.; Sollevi, A.
Isaacson, I. J., *see* Berry, A. J.
Ishikawa, T., Funatsu, N., Okamoto, K., Takeshita, H., McDowall, D. G.: Blood-Brain Barrier Function Following Drug-induced Hypotension in the Dog, **59:** 526
Ishikawa, T., *see* Sakabe, T.
Ishizaka, N., *see* Sumikawa, K.
Israel, J. S., DeKornfeld, T. J.: Recovery Room Care, **57:** 254
Ito, Y., *see* Korenaga, S.
Ivankovich, A. D., Braverman, B., Kanuru, R. P., Heyman, H. J., Paulissian, R.: Cyanide Antidotes and Methods of Their Administration in Dogs: A Comparative Study, **52:** 210
Ivankovich, A. D., Braverman, B., Stephens, T. S., Shulman, M., Heyman, H. J.: Sodium Thiosulfate: Relation to Nitroprusside Toxicity, **58:** 11
Ivankovich, A. D., *see* Shulman, M.
Ivey, T. D., *see* Buffington, C. W.
Iwatsuki, K., *see* Iwatsuki, N.
Iwatsuki, N., Kuroda, N., Amaha, K., Iwatsuki, K.: Succinylcholine-induced Hyperkalemia in Patients with Ruptured Cerebral Aneurysms, **53:** 64
Izumi, F., *see* Sumikawa, K.

J

Jackson, J.: Tachycardia and Mitral Valve Disease, **60:** 389
Jacobs, J., *see* Wilson, R. F.
Jacobs, K. H., *see* Rao, T. L. K.
Jacobs, L., *see* Korttila, K.
Jaffe, T. B., Bernhart, J.: CO_2 Monitoring during Cardiopulmonary Bypass, **56:** 485
Jaffe, T. B., McLesky, C. H.: Position-Induced Horner's Syndrome, **56:** 49
Jaffe, T. B., Ramsey, F. M.: Attenuation of Fentanyl-induced Truncal Rigidity, **58:** 562
Jaffe, T. B., *see* McLeskey, C. H.
Jain, U., Gold, M. I.: Monitoring Respiration during Regional Anesthesia, **60:** 166
Jakymec, A. J., *see* MacMurdo, S. D.
James, C. F., Gibbs, C. P., Banner, T.: Postpartum Perioperative Risk of Aspiration Pneumonia, **61:** 756
James, F. M., III, Dewan, D. M., Floyd, H. M., Wheeler, A. S., Grant, W. M., Rhyne, L., Westmoreland, R. T.: Chloroprocaine *vs.* Bupivacaine for Lumbar Epidural Analgesia for Elective Cesarean Section, **52:** 488
James, F. M., III, *see* Dewan, D. M.; *also see* Webb, P. J.; Wheeler, A. S.; Writer, W. D. R.
James, F. M., III (ed.), Wheeler, A. S. (ed.): Obstetric Anesthesia: The Complicated Patient, **57:** 433
James, I., Wark, H.: Airway Management during Anesthesia in Patients with Epidermolysis Bullosa Dystrophica, **56:** 323
James, L. S., *see* Zubrow, A. B.
James, T. L., *see* Davies, G. K.
Janfaza, P., *see* Zmyslowski, W. P.
Jang, T. L., MacLeod, B. A., Walker, M. J. A.: Effects of Halogenated Hydrocarbon Anesthetics on Responses to Ligation of a Coronary Artery in Chronically Prepared Rats, **59:** 309
Janssen, E. G., *see* Byrick, R. J.
Järnberg, P.-O., Ekstrand, J., Irestedt, L.: Renal Fluoride Excretion and Plasma Fluoride Levels during and after Enflurane Anesthesia Are Dependent on Urinary *p*H, **54:** 48
Järnberg, P.-O., *see* Hedenstierna, G.
Jasson, J., *see* Cohen, S. E.
Jawalekar, S. R., Marx, G. F.: Cutaneous Cerebrospinal Fluid Leakage Following Attempted Extradural Block, **54:** 348
Jawalekar, S. R., Santos, H. B.: A Procedure for Measuring the Length of the Catheter in the Epidural Space, **57:** 67
Jeal, D. E.: Statistical Error, **52:** 281
Jebeles, J. A., *see* Kissin, I.
Jedeikin, R., *see* Shapiro, L-A.
Jedeikin, R. J., *see* Shapiro, L. A.
Jeffrey, C. C., Kunsman, J., Cullen, D. J., Brewster, D. C.: Prospective Evaluation of Cardiac Risk Index, **58:** 462
Jeffrey, C. C., Kunsman, J., Cullen, D. J., Brewster, D. C.: Reply to: A Reconsideration of the Merits of the Cardiac Risk Index, **60:** 608
Jehle, J., *see* Crosby, G.
Jellum, E., *see* Krohg, K.; *also see* Kuhnert, B. R.
Jenkins, J. G.: Pretreatment and "Crash" Induction, **61:** 346
Jenkins, J. G.: Pulmonary Edema Following Laryngospasm, **60:** 611
Jennings, F., *see* O'Sullivan, H.
Job, C., *see* Thiagarajah, S.
Jobes, D. R., Schwartz, A. J., Greenhow, D. E., Stephenson, L. W., Ellison, N.: Safer Jugular Vein Cannulation: Recognition of

Arterial Puncture and Preferential Use of the External Jugular Route, **59:** 353
Jobes, D. R., *see* Ellison, N.; *also see* Lieberman, R. W.; Richman, K. A.; Schwartz, A. J.
Joel, M., Rosales, J. K.: Fanconi Syndrome and Anesthesia, **55:** 455
Johans, T. G., Rofkar, G., Townsend, J. F., Eggers, G. W. N., Jr.: Hyperlactatemia during Transurethral Resection of the Prostate Using Sorbitol Solution as the Urologic Irrigant, **52:** 374
Johansen, R., *see* English, J. B.
Johnson, A. C., *see* Parris, W. C. V.
Johnson, B. H., *see* Cahalan, M. K.; *also see* Harper, M. H.; Horrigan, R. W.; Koblin, D. D.; Melvin, M. A.; Steffey, E. P.; Way, W. L.
Johnson, D. C., *see* Klineberg, P. L.
Johnson, E. B.: Did Anesthetic Mismanagement Contribute to Intraoperative Death? I, **61:** 791
Johnson, E. S., Colley, P. S.: Effects of Nitrous Oxide and Fentanyl Anesthesia on Fetal Heart-rate Variability Intra- and Postoperatively, **52:** 429
Johnson, J. C., *see* Royster, R. L.; *also see* Stefani, S. J.
Johnston, R., *see* McTaggart, R. A.
Johnston, W. E., Prough, D. S., Royster, R. L., Peacock, J. E., Gravlee, G. P., Mills, S. A., Cordell, A. R.: Short-term Sterility of the Pulmonary Artery Catheter Inserted Through an External Plastic Shield, **61:** 461
Johnston, W. E., *see* Lowenstein, E.; *also see* Prough, D. S.; Royster, R. L.
Joiner, J., *see* Martz, K. V.
Jones, C. S.: A New Look at Old Anesthesia Circuits, **56:** 486
Jones, C. S.: Rebreathing and the Bain Circuit. II, **60:** 81
Jones, D. E., Watson, C. B., Goetter, C.: Oxygen Pressure Sensor Shutoff Valve Failure in the Ohio® "Wedge" Anesthesia Machine, **61:** 634
Jones, J. G., *see* Jordan, C.
Jones, R. M., Hill, A. B., Nahrwold, M. L., Bolles, R. E.: The Effect of Method of Radial Artery Cannulation on Postcannulation Blood Flow and Thrombus Formation, **55:** 76
Jones, R. M., *see* Hill, A. B.; *also see* Pearce, A. C.; Pollard, B. J.
Jones, W. P., *see* Fewellen, E. H.
Jonson, B., *see* Fletcher, R.
Jordan, C., Lehane, J. R., Jones, J. G.: Respiratory Depression Following Diazepam: Reversal with High-dose Naloxone, **53:** 293
Jordan, R. M., *see* Clark, R. B.
Jordan, W. S., *see* Hayes, J. K.
Jørgensen, B. C., Andersen, H. B., Engquist, A.: CSF and Plasma Morphine after Epidural and Intrathecal Application, **55:** 714
Jørgensen, B. C., *see* Cullen, D. J.
Joseph, D. M., *see* Cooper, J. B.
Joshi, C. W., *see* Ovassapian, A.
Jouppila, P., *see* Albright, G. A.
Jouppila, R., *see* Albright, G. A.
Joyce, J., *see* Gencarelli, P. J.
Joyce, J. T., Roizen, M. F., Eger, E. I., II: Effect of Thiopental Induction on Sympathetic Activity, **59:** 19
Joyce, J. T., Roizen, M. F., Gerson, J. I., Grobecker, H., Eger, E. I., II, Forbes, A. R.: Induction of Anesthesia with Halothane Increases Plasma Norepinephrine Concentrations, **56:** 286
Joyce, T. H., III, *see* Longmire, S.; *also see* Hodgkinson, R.
Jozefiak, A., *see* Hoffman, W. E.
Juge, O., *see* Forster, A.
Julien, R., *see* Hirshman, C. A.
Julien, R. M.: Potentially Fatal Machine Fault, **58:** 584
Jumper, A., Desai, S., Liu, P., Philip, J.: Pulmonary Barotrauma Resulting from a Faulty Hope® II Resuscitation Bag, **58:** 572
Jung, D., Mayersohn, M., Perrier, D., Calkins, J., Saunders, R.: Thiopental Disposition as a Function of Age in Female Patients Undergoing Surgery, **56:** 263
Jung, D., Mayersohn, M., Perrier, D., Calkins, J., Saunders, R.: Thiopental Disposition in Lean and Obese Patients Undergoing Surgery, **56:** 269

K

Kacmarek, R. M., Dimas, S., Mack, C. W.: The Essentials of Respiratory Therapy, **52:** 198
Kadis, L. B., *see* Katz, J.
Kafer, E. R.: Respiratory and Cardiovascular Functions in Scoliosis and the Principles of Anesthetic Management, **52:** 339
Kafer, E. R., Brown, J. T., Scott, D., Findlay, J. W. A., Butz, R. F., Teeple, E., Ghia, J. N.: Ventilatory Effects of Lumbar Epidural Morphine, **58:** 418
Kahn, A. U., *see* Doblar, D. D.
Kahnoski, R. J., *see* Roesch, R. P.
Kalbfleisch, J. H., *see* Seagard, J. L.
Kalhan, S., Regan, A. G.: A Further Modification of Endotracheal Tubes for Laser Microsurgery, **53:** 81
Kalman, S. M., *see* Stanski, D. R.
Kalso, E. A., *see* Rosenberg, P. H.
Kam, C. A., *see* Klineberg, P. L.
Kamat, V., *see* Rosenberg, M.
Kamaya, H., Mashimo, T., Ueda, I.: *p*H Average Rebuttal, **52:** 449
Kaminsky, A., *see* Loeser, E. A.
Kampine, J. P., *see* Bachhuber, S. R.; *also see* Bosnjak, Z. J.; Kotrly, K. J.; Seagard, J. L.; Stowe, D. F.
Kane, M. A., *see* Berry, A. J.
Kanel, J. S., *see* Hameroff, S. R.
Kaniaris, P., *see* Fassoulaki, A.
Kanter, R. K., Pollack, M. M., Wright, W. W., Grundfast, K. M.: Treatment of Severe Tracheobronchomalacia with Continuous Positive Airway Pressure (CPAP), **57:** 54
Kanuru, R. P., *see* Ivankovich, A. D.
Kaplan, J. A., *see* Cruchley, P. M.; *also see* Kates, R. A.; Waller, J. L.; Zaidan, J. R.
Kaplan, J. A. (ed.): Thoracic Anesthesia, **59:** 170
Kaplan, M. J., *see* Stone, D. J.
Kaplan, R., Abramowitz, M. D., Epstein, B. S.: Nitrous Oxide and Air-filled Balloon-tipped Catheters, **55:** 71
Kaplan, R. F., *see* Giger, U.; *also see* Heard, S. O.
Kapur, P. A., Bloor, B. C., Flacke, W. E., Olewine, S. K.: Comparison of Cardiovascular Responses to Verapamil during Enflurane, Isoflurane, or Halothane Anesthesia in the Dog, **61:** 156
Kapur, P. A., Flacke, W. E.: Epinephrine-induced Arrhythmias and Cardiovascular Function after Verapamil during Halothane Anesthesia in the Dog, **55:** 218
Karambelkar, D. J., *see* Azar, I.
Karanjia, P. N., *see* Grundy, B. L.
Karis, J. H., Crawford, R. D.: Hypothermia after Cardiopulmonary Bypass in Man, **56:** 233
Karl, H. W.: Reply to: Epinephrine—Halothane Interaction in Children *versus* Adults, **60:** 77
Karl, H. W., Swedlow, D. B., Lee, K. W., Downes, J. J.: Epinephrine-Halothane Interactions in Children, **58:** 142
Kashima, H., *see* Ngeow, Y. K.
Kashimoto, T., *see* Sumikawa, K.
Kates, R. A., Kaplan, J. A., Guyton, R. A., Dorsey, L., Hug, C. C., Jr., Hatcher, C. R.: Hemodynamic Interactions of Verapamil and Isoflurane, **59:** 132
Kates, R. A., Zaggy, A. P., Norfleet, E. A., Heath, K. R.: Comparative Cardiovascular Effects of Verapamil, Nifedipine, and Diltiazem during Halothane Anesthesia in Swine, **61:** 10
Kates, R. E., *see* Maze, M.
Katz, J.: Treatment of A Subarachnoid-Cutaneous Fistula with an Epidural Blood Patch, **60:** 603
Katz, J., Benumof, J., Kadis, L. B.: Anesthesia and Uncommon Diseases, **57:** 72
Katz, J. A., Laverne, R. G., Fairley, H. B., Thomas, A. N.: Pulmonary Oxygen Exchange during Endobronchial Anesthesia: Effect of Tidal Volume and PEEP, **56:** 164
Katz, J. A., Ozanne, G. M., Zinn, S. E., Fairley, H. B.: Time Course and Mechanisms of Lung-volume Increase with PEEP in Acute Pulmonary Failure, **54:** 9
Katz, J. A., *see* Bogetz, M. S.; *also see* Cassorla, L.; Schlobohm, R. M.; Durant, N. N.; Lee, C.
Katzung, B. G. (ed.): Basic and Clinical Pharmacology, **60:** 268
Kaufman, J. J., *see* Schulman, D. S.
Kaufman, R. L., *see* Keenan, M. A.

Kavanaugh, J., *see* Cane, R. D.
Kawahara, M., *see* Homma, E.
Kawamoto, M., Shimidzu, Y.: A Balloon Catheter for Nasal Intubation, **59:** 484
Kay, J. C., *see* Fisher, J.; *also see* Noble, W. H.
Kazmierowski, J. A., *see* Butler, J. M.
Keats, A. S.: The Rovenstein Lecture, 1983: Cardiovascular Anesthesia: Perceptions and Perspectives, **60:** 467
Keats, A. S., *see* Slogoff, S.; *also see* Turnbull, K. W.
Keegan, C. R., *see* Rosow, C. E.
Keenan, M. A., Stiles, C. M., Kaufman, R. L.: Acquired Laryngeal Deviation in Polyarticular Arthritis, **58:** 441
Keenan, R. L., Byrick, R. J.: Factors Affecting Rebreathing in T-piece Circuits, **55:** 84
Keenan, R. L., *see* Dean, S. E.
Keifer-Goodman, J., *see* Tommasino, C.
Kellett, P. B., Copeland, C. S.: Methemoglobinemia Associated with Benzocaine-containing Lubricant, **59:** 463
Kelley, M., *see* Baden, J. M.
Kellman, R. M., *see* Chilcoat, R. T.
Kendig, J. J.: The Basic Scientist in a Department of Anesthesia, **52:** 199
Kenepp, N. B., Gutsche, B. B.: Inadvertent Intravascular Injections during Lumbar Epidural Anesthesia, **54:** 172
Kennedy, R. L., *see* Merkow, A. J.
Kennedy, S. K. (ed.), *see* Ropper, A. L. (ed.)
Keon, T. P.: Death on Induction of Anesthesia for Cervical Node Biopsy, **55:** 471
Kerr, C. R., *see* Kissin, I.
Kerrick, W. G. L., *see* Su, J. Y.
Kettler, D., *see* Sonntag, H.
Keykhah, M. M., *see* Carlsson, C.
Keykhak, M. M., Hägerdal, M., Welsh, F. A., Barrer, M. A., Sisco, F., Harp, J. R.: Effect of High *vs.* Low Arterial Blood Oxygen Content on Cerebral Energy Metabolite Levels during Hypoxia with Normothermia and Hypothermia in the Rat, **52:** 492
Khambatta, H. J., *see* Matteo, R. S.
Kharkevich, D. A. (ed.): Pharmacology of Ganglionic Transmission, **53:** 438
Khoo, S. S., *see* Abboud, T. K.
Kikuchi, H., *see* Morio, M.; *also see* Namiki, A.
Kim, J. G., *see* Moon, G. J.
Kim, K. C., *see* Dailey, P. A.
Kim, S., *see* Fan, F.-C.
Kim, T. H., *see* Lo, J. N.
Kim, Y. D., *see* Hanowell, S. T.; *also see* Lees, D. E.
Kim, Y. L., Richman, K. A., Marshall, B. E.: Thrombocytopenia Associated with Swan-Ganz Catheterization in Patients, **53:** 261
Kim, Y. L., *see* Richman, K. A.
Kimble, K. J., Darnall, R. A., Jr., Yelderman, M., Ariagno, R. L., Ream, A. K.: An Automated Oscillometric Technique for Estimating Mean Arterial Pressure in Critically Ill Newborns, **54:** 423
Kimmich, H. P. (ed.): Monitoring of Vital Parameters During Extracorporeal Circulation, **57:** 559
King, I. R., *see* Elliott, M. B.
King, R. D., *see* Mahomed, Y.
Kinney, J. M., *see* Askanazi, J.; *also see* Damask, M. C.
Kinyon, G., *see* Lyden, P. D.
Kinyon, G. E.: A New Device for Topical Anesthesia, **56:** 154
Kirby, R. R.: High-frequency Positive-pressure Ventilation (HFPPV): What Role in Ventilatory Insufficiency, **52:** 109
Kirby, R. R., *see* Brown, D. L.; *also see* Weng, J. T.
Kirsh, M. M., *see* Hill, A. B.; *also see* Samra, S. K.
Kishi, Y., *see* Furuya, H.
Kissin, I.: Bioassay, Potency, and Intravenous Anesthetics, **53:** 351
Kissin, I.: Diazepam Anesthesia and Myocardial Contractility, **53:** 78
Kissin, I.: Heart Rate Response to Nociceptive Stimulation as Index of Anesthetic Potency for Enflurane, **58:** 109
Kissin, I., Aultman, D. F., Smith, L. R.: Effects of Volatile Anesthetics on Myocardial Oxidation-Reduction Status Assessed by NADH Fluorometry, **59:** 447
Kissin, I., Green, D.: Effect of Halothane on Cardiac Acceleration Response to Somatic Nerve Stimulation in Dogs, **61:** 708
Kissin, I., Jebeles, J. A.: Halothane Antagonizes Effect of Morphine on the Motor Reaction Threshold in Rats, **61:** 671
Kissin, I., Kerr, C. R., Smith, L. R.: Morphine—Halothane Interaction in Rats, **60:** 553
Kissin, I., McGee, T.: Hypnotic Effect of Thiopental-Lidocaine Combination in the Rat, **57:** 311
Kissin, I., Morgan, P. L., Smith, L. R.: Anesthetic Potencies at Various End Points of Anesthesia, **58:** 88
Kissin, I., Morgan, P. L., Smith, L. R.: Comparison of Isoflurane and Halothane Safety Margins in Rats, **58:** 556
Kissin, I., Reves, J. G.: Halothane and Ischemic Injury, **60:** 74
Kissin, I., Reves, J. G., Mardis, M.: Is the Rate–Pressure Product a Misleading Guide, **52:** 373
Kissin, I., *see* Reves, J. G.
Kistner, J. R., *see* Miller, E. D., Jr.
Kitahata, L. M., Collins, J. G.: Spinal Action of Narcotic Analgesics, **54:** 153
Kitahata, L. M., *see* Collins, J. G.; *also see* Homma, E.; Namiki, A.; Saito, H.; Suzukawa, M.
Kitihata, L. M. (ed.), Collins, J. G. (ed.): Narcotic Analgesics in Anesthesiology, **57:** 254
Kitz, R. J., *see* Cooper, J. B.
Klain, M., *see* Babinski, M.
Klain, M., *see* Carlon, G. C.
Klassen, G. A., Bramwell, R. S., Bromage, P. R., Zborowska-Sluis, D. T.: Effect of Acute Sympathectomy by Epidural Anesthesia on the Canine Coronary Circulation, **52:** 8
Klein, D. S.: An Endotracheal Tube Fixation Device Constructed from Discarded Oxygen Tubing and Umbilical Tape, **60:** 76
Klein, D. S.: Nalbuphine and Droperidol for Local Standby Sedation, **58:** 397
Klein, D. S., Kosanin, R.: Anisocoria and Ipsilateral Exophthalmos during Enflurane Anesthesia, **57:** 237
Klein, F. F., Davis, D. A.: A Further Statement on Automated EEG Processing for Intraoperative Monitoring, **54:** 433
Klein, M. D., Rudd, M.: Successful Central Venous Catheter Placement from Peripheral Subcutaneous Veins in Children, **52:** 447
Klein, O. L., *see* Rendell-Baker, L.
Klein, S. L., Ali, N. M. K.: An Unusual Occurrence of Total Anesthesia Machine Failure during Administration of an Anesthetic, **57:** 328
Klein, S. L., Lilburn, J. K.: An Unusual Case of Hypercarbia during General Anesthesia, **53:** 248
Klineberg, P. L., Kam, C. A., Johnson, D. C., Cartmill, T. B., Brown, J. H.: Hematocrit and Blood Volume Control during Cardiopulmonary Bypass with the Use of Hemofiltration, **60:** 478
Kling, D., *see* Russ, W.
Klingstedt, C., *see* Hedenstierna, G.
Klocke, F. J., Ellis, A. K., Orlick, A. E.: Sympathetic Influences on Coronary Perfusion and Evolving Concepts of Driving Pressure, Resistance, and Transmural Flow Regulation, **52:** 1
Knape, J. T. A., Schuller, J. L., de Haan, P., de Jong, A. P., Bovill, J. G.: An Anaphylactic Reaction to Protamine in a Patient Allergic to Fish, **55:** 324
Knapp, R., *see* Naulty, J. S.
Knapp, R. M.: Bupivacaine Cardiotoxicity May Be More Related to Technique than to the Drug, **60:** 257
Kniffen, K. J., *see* Moss, J.
Knight, P. R., Bedows, E., Nahrwold, M. L., Maassab, H. F., Smitka, C. W., Busch, M. T.: Effects of Anesthetics on Mouse Influenza, **58:** 209
Knight, P. R., Lane, G. A., Hensinger, R. N., Bolles, R. S., Bjoraker, D. G.: Catecholamine and Renin–Angiotensin Response during Hypotensive Anesthesia Induced by Sodium Nitroprusside or Trimethaphan Camsylate, **59:** 248
Knight, P. R., Lane, G. A., Nicholls, M. G., Tait, A. R., Nahrwold, M. L., Hensinger, R. N., Cohen, P. J.: Hormonal and Hemodynamic Changes Induced by Pentolinium and Propranolol during Surgical Correction of Scoliosis, **53:** 127
Knight, P. R., *see* Bedows, E.; *also see* Brabec,

M. J.; Hantler, C. B.; Hill, A. B.; Kroll, D. A.
Knights, K., *see* Cousins, M. J.
Knill, R. L.: Wresting or Resting Ventilation, **59:** 609
Knill, R. L., Clement, J. L.: Site of Selective Action of Halothane on the Peripheral Chemoreflex Pathway in Humans, **61:** 121
Knill, R. L., Gelb, A. W.: Peripheral Chemoreceptors during Anesthesia: Are the Watchdogs Sleeping, **57:** 151
Knill, R. L., Lam, A. M., Thompson, W. R., Doblar, D. D.: Epidural Morphine and Ventilatory Depression, **56:** 486
Knill, R. L., *see* Lam, A. M.
Knopp, T. J., *see* Marsh, H. M.
Kobayashi, H., *see* Sawada, Y.
Koblin, D. D.: Anesthetic Requirement in the Quaking Mouse, **54:** 17
Koblin, D. D., Deady, J. E., Eger, E. I., II: Potencies of Inhaled Anesthetics and Alcohol in Mice Selectively Bred for Resistance and Susceptibility to Nitrous Oxide Anesthesia, **56:** 18
Koblin, D. D., Dong, D. E., Deady, J. E., Eger, E. I., II: Selective Breeding Alters Murine Resistance to Nitrous Oxide Without Alteration in Synaptic Membrane Lipid Composition, **52:** 401
Koblin, D. D., Eger, E. I., II, Johnson, B. H., Collins, P., Harper, M. H., Terrell, R. C., Speers, L.: Minimum Alveolar Concentrations and Oil/Gas Partition Coefficients of Four Anesthetic Isomers, **54:** 314
Koblin, D. D., Lurz, F. W., Eger, E. I., II: Aging and Nitrous Oxide Requirement, **58:** 428
Koblin, D. D., O'Connor, B., Deady, J. E., Eger, E. I., II: Potencies of Convulsant Drugs in Mice Selectively Bred for Resistance and Susceptibility to Nitrous Oxide Anesthesia, **56:** 25
Koblin, D. D., Watson, J. E., Deady, J. E., Stokstad, E. L. R., Eger, E. I., II: Inactivation of Methionine Synthetase by Nitrous Oxide in Mice, **54:** 318
Kobrinsky, N., *see* Duncan, P. G.
Koch, J. P., *see* Patil, V.
Kochansky, S. W.: Potential Deficiencies in Modifying the Dinamap® for Use in the Neonate, **60:** 171
Koechel, D. A., *see* Nigrovic, V.
Kofke, W. A., Wuest, H. P., Mc Ginnis, L. A.: Cesarean Section Following Ruptured Cerebral Aneurysm and Neuroresuscitation, **60:** 242
Koga, Y., Downes, H., Leon, D. A., Hirshman, C. A.: Mechanism of Tracheal Constriction by Succinylcholine, **55:** 138
Kohlenberger, R. W., *see* Tommasino, C.
Koike, M., *see* Kotelko, D. M.
Koivula, A., *see* Albright, G. A.
Koka, B. V., *see* Schwartz, L.
Kolb, M. E., Horne, M. L., Martz, R.: Dantrolene in Human Malignant Hyperthermia: A Multicenter Study, **56:** 254
Kolton, M., *see* Byrick, R. J.
Komai, H., Rusy, B. F.: Effects of Bupivacaine and Lidocaine on AV Conduction in the Isolated Rat Heart: Modification by Hyperkalemia, **55:** 281
Kondo, K.: Percutaneous Radial Artery Cannulation Using a Pressure-curve-directed Technique, **61:** 639
Kondo, K.: Vasoactive Drug Infusion: Making Life Easier, **60:** 617
Konishi, A., *see* Muneyuki, M.
Kono, K., *see* Philbin, D. M.
Koot, H. W. J., *see* Gencarelli, P. J.
Kopman, A. F.: Pharmacokinetic Variables: What Should Be Published, **61:** 106
Kopman, A. F., Lawson, D.: Milliamperage Requirements for Supramaximal Stimulation of the Ulnar Nerve with Surface Electrodes, **61:** 83
Kopman, A. F., Stanski, D. R., Sheiner, L. B.: More on the Pharmacokinetics and Dynamics of Muscle Relaxants, **52:** 454
Kopman, E. A.: Deep Breathing and Nitroglycerin-induced Hypoxemia, **55:** 74
Kopman, E. A.: Intravenous Verapamil to Relieve Pulmonary Congestion in Mitral Valve Disease, **58:** 374
Kopman, E. A.: Preventing Air Embolism While Inserting Central Catheters, **57:** 349
Kopman, E. A.: Reply to: Tachycardia and Mitral Valve Disease, **60:** 390
Korbon, G. A., Rowlingson, J. C., DiFazio, C. A.: Sensitivity to Pain Predicts CNS Sensitivity to Lidocaine, **61:** 767
Korbon, G. A., *see* Cunningham, E; *also see* Veselis, R.
Korenaga, S., Takeda, K., Ito, Y.: Differential Effects of Halothane on Airway Nerves and Muscle, **60:** 309
Korman, B., Ritchie, J. M.: Densities of Liquid Halothane, Methoxyflurane, and Enflurane between 0° and 35°C, **57:** 42
Korttila, K., Ghoneim, M. M., Jacobs, L., Lakes, R. S.: Evaluation of Instrumented Force Platform as a Test to Measure Residual Effects of Anesthetics, **55:** 625
Korttila, K., Ghoneim, M. M., Jacobs, L., Mewaldt, S. P., Petersen, R. C.: Time Course of Mental and Psychomotor Effects of 30 Per Cent Nitrous Oxide during Inhalation and Recovery, **54:** 220
Kosanin, R., *see* Klein, D. S.
Kotelko, D. M., Shnider, S. M., Dailey, P. A., Brizgys, R. V., Levinson, G., Shapiro, W. A., Koike, M., Rosen, M. A.: Bupivacaine-induced Cardiac Arrhythmias in Sheep, **60:** 10
Kothary, S. P., Brown, A. C. D., Pandit, U. A., Samra, S. K., Pandit, S. K.: Time Course of Antirecall Effect of Diazepam and Lorazepam following Oral Administration, **55:** 641
Kotrly, K. J.: Reply, **61:** 483
Kotrly, K. J., Ebert, T. J., Vucins, E., Igler, F. O., Barney, J. A., Kampine, J. P.: Baroreceptor Reflex Control of Heart Rate during Isoflurane Anesthesia in Humans, **60:** 173
Kotrly, K. J., Ebert, T. J., Vucins, E. J., Roerig, D. L., Kampine, J. P.: Baroreceptor Reflex Control of Heart Rate during Morphine Sulfate, Diazepam, N_2O/O_2 Anesthesia in Humans, **61:** 558
Kotter, G. S.: Valve Simplifies Pressure Monitoring from Triple-lumen Pulmonary-artery Catheters, **52:** 284
Koushanpour, E., *see* Behnia, R.
Kraemer, C. A., Stead, S. W.: Computer-assisted Pediatric Worksheets for Anesthesia, **60:** 520
Kravath, R., *see* Weinberg, S.
Kraynack, B. J., Gintautas, J. G.: Naloxone: Analeptic Action Unrelated to Opiate Receptor Antagonism, **56:** 251
Krieg, N., *see* Buzello, W.
Krieger, W., *see* Gancher, S.; *also see* Hirshman, C. A.
Krishna, G., *see* McNiece, W. L.
Krohg, K., Jellum, E.: Urinary Metabolites of Chloroprocaine Studied by Combined Gas Chromatography–Mass Spectrometry, **54:** 329
Krohg, K., *see* Kuhnert, B. R.
Kroll, D., *see* Smith, M.
Kroll, D. A., Knight, P. R.: Antifibrillatory Effects of Volatile Anesthetics in Acute Occlusion/Reperfusion Arrhythmias, **61:** 657
Kroll, D. A., Morris, M. D., Norton, M. L.: Hazards of Laser Degradation of Methylmethacrylate, **61:** 115
Kronberg, G. M., *see* Quan, S. F.
Krösl, P., *see* Zimpfer, M.
Kruczek, M., Albin, M. S., Wolf, S., Bertoni, J. M.: Postoperative Seizure Activity Following Enflurane Anesthesia, **53:** 175
Krupin, B. R., *see* Roa, N. L.
Kruszyna, H., Kruszyna, R., Smith, R. P.: Nitroprusside Increases Cyclic Guanylate Monophosphate Concentrations during Relaxation of Rabbit Aortic Strips and Both Effects Are Antagonized by Cyanide, **57:** 303
Kruszyna, H., *see* Smith, R. P.
Kruszyna, R., *see* Kruszyna, H.; *also see* Smith, R. P.
Kryc, J. J., *see* Cork, R. C.
Kuhls, E., *see* Buzello, W.
Kuhnert, B. R., Kuhnert, P. M., Gross, T. L.: Reply to: The Disposition of Bupivacaine Following Epidural Anesthesia for Cesarean Section, **57:** 250
Kuhnert, B. R., Kuhnert, P. M., Prochaska, A. L., Gross, T. L.: Plasma Levels of 2-Chloroprocaine in Obstetric Patients and Their Neonates after Epidural Anesthesia, **53:** 21

Kuhnert, B. R., Kuhnert, P. M., Reese, A. L. P., Krohg, K., Jellum, E.: Urinary Metabolites of Chloroprocaine, **56:** 483

Kuhnert, B. R., Philipson, E. H., Pimental, R., Kuhnert, P. M.: A Prolonged Chloroprocaine Epidural Block in a Postpartum Patient with Abnormal Pseudocholinesterase, **56:** 477

Kuhnert, B. R., *see* Gross, T. L.; *also see* Kuhnert, P. M.

Kuhnert, L., *see* Berman, M. L.

Kuhnert, P. M., Kuhnert, B. R., Stitts, J. M., Gross, T. L.: The Use of a Selected Ion Monitoring Technique to Study the Disposition of Bupivacaine in Mother, Fetus, and Neonate Following Epidural Anesthesia for Cesarean Section, **55:** 611

Kuhnert, P. M., *see* Gross, T. L.; *also see* Kuhnert, B. R.

Kulkarni, P. S., *see* Bruce, D. L.

Kumar, A., Frost, E.: Prevention of Fire Hazard during Laser Microsurgery, **54:** 350

Kumar, P., *see* Balasaraswathi, K.

Kundomal, Y., *see* Brodsky, J. B.

Kunsman, J., *see* Cullen, D. J.; *also see* Jeffrey, C. C.

Kuroda, N., *see* Iwatsuki, N.

Kushins, L., Bruce, D. L.: Clonidine Withdrawal, Propranolol, and Rebound Hypertension, **53:** 178

Kushins, L. G., *see* Chapin, J. C.; *also see* Neuman, G. G.; Schick, L. M.

Kuzume, K., *see* Arai, T.

Kyff, J. V., *see* Sybert, J. W.

L

Labbé, A., *see* Dalens, B.

Ladegaard-Pedersen, H. J.: Recovery from General Anesthesia in Obese Patients, **55:** 720

Ladner, W., *see* Neuman, G. G.

Laffay, N., *see* Marty, J.

Lagade, M. R. G., Poppers, P. J.: Left-entry Laryngoscope Blade for Right-Sided Oro-Facial Lesions, **58:** 300

Lagade, M. R. G., Poppers, P. J.: Revival of the Polio Laryngoscope Blade, **57:** 545

Lagade, M. R. G., Poppers, P. J.: Stellate Ganglion Block: A Therapeutic Modality for Arterial Insufficiency of the Arm in Premature Infants, **61:** 203

Lagerkranser, M., Irestedt, L., Sollevi, A., Andreen, M.: Central and Splanchnic Hemodynamics in the Dog During Controlled Hypotension with Adenosine, **60:** 547

Lagerkranser, M., *see* Sollevi, A.

Lahiri, S., *see* Davies, R. O.

Lake, C. L., Duckworth, E. N., DiFazio, C. A., Durbin, C. G., Magruder, M. R.: Cardiovascular Effects of Nalbuphine in Patients with Coronary or Valvular Heart Disease, **57:** 498

Lake, C. L., *see* Ross, W. T., Jr.

Lakes, R. S., *see* Korttila, K.

Lam, A. M., Clement, J. L., Chung, D. C., Knill, R. L.: Respiratory Effects of Nitrous Oxide during Enflurane Anesthesia in Humans, **56:** 298

Lam, A. M., *see* Knill, R. L.

LaMantia, K. R., Glick, J. H., Marshall, B. E.: Reply, **61:** 226

LaMantia, K. R., Glick, J. H., Marshall, B. E.: Supplemental Oxygen Does Not Cause Respiratory Failure in Bleomycin-treated Surgical Patients, **60:** 65

Lambert, E. H., *see* Dyck, P. J.

Land, P., *see* Ovassapian, A.

Land, P. C., Owen, E. L., Linde, H. W.: Morphologic Changes in Mouse Spermatozoa after Exposure to Inhalational Anesthetics during Early Spermatogenesis, **54:** 53

Landolt, C., *see* Erdmann, A. J.

Lane, G. A.: Medical Gas Outlets—a Hazard from Interchangeable "Quick-connect" Couplers, **52:** 86

Lane, G. A., *see* Knight, P. R.

Lang, D. W., *see* Donlon, J. V., Jr.

Langford, R. M., *see* Gillett, G. B.

Lanier, W., Prough, D. S.: Intraoperative Diagnosis of Hypertrophic Obstructive Cardiomyopathy, **60:** 61

Lanks, K. W., Sklar, G. S.: Pseudocholinesterase Levels and Rates of Chloroprocaine Hydrolysis in Patients Receiving Adequate Doses of Phospholine Iodide, **52:** 434

Laorden, M. L., *see* Miralles, F. S.; *also see* Puig, M. M.

Lappas, D. G., *see* Lowenstein, E.

Laravuso, R. B., *see* Stene, J. K.

Lardizabal, S., *see* Capan, L. M.

Larsen, R., *see* Sonntag, H.

Larson, C. E., *see* Bedger, R. C.; *also see* Chang, J.-L.; Melnick, B.

Larson, C. P., Jr.: Technique Is the Critical Variable, **58:** 587

Larson, C. P., Jr.,: Use of Spinal Anesthesia in Patients with Idiopathic Hypertrophic Subaortic Stenosis, **61:** 229

Larson, C. P., Jr., *see* Hamilton, W. K.

Larson, M. D.: Dilation of the Pupil in Human Subjects after Intravenous Thiopental, **54:** 246

Larson, M. D.: Glycine and the Blood-Brain Barrier, **58:** 488

LaSala, P. A., *see* Askanazi, J.

Lau, S.-S., *see* Conklin, K. A.

Laucks, S. O.: Scavenging Waste Gases in Pediatric Patients, **59:** 612

Laucks, S. O., *see* Gross, J. B.; *also see* Horrow, J. C.

Laughlin, S., *see* Shah, K. B.

Lauria, J. I., *see* Bancroft, G. H.

Lauven, P. M., *see* Greenblatt, D. J.

Laverne, R. G., *see* Katz, J. A.

Lavine, L. M., Hindin, B. I.: Hemodialysis as Treatment for Prolonged Neuromuscular Blockade in Anephric Patients, **59:** 264

Lawrence, J., *see* Bourke, D. L.

Lawson, D., *see* Kopman, A. F.

Laxer, K. D., *see* Gancher, S.

Le Neel, J.-C., *see* Meignier, M.

Leal, J. J., *see* Thomas, P. S.

Lear, E., *see* Azar, I.

Lear, E., *see* Thiagarajah, S.

Lear, M. W.: Heartsounds, **56:** 77

Lebowitz, P. W., Cote, M. E., Daniels, A. L., Bonventre, J. V.: Comparative Renal Effects of Midazolam and Thiopental in Humans, **59:** 381

Lebowitz, P. W., Geller, E., Andeweg, S. K.: Endotracheal Balloon Cuff Dilatation of Tracheostomal Stenosis, **57:** 323

Lebowitz, P. W., *see* Ali, H. H.

Lebowitz, P. W. (ed.), Newburg, L. A. (ed.), Gillette, M. T. (ed.): Clinical Anesthesia Procedures of the Massachusetts General Hospital, **61:** 118

Lebrec, D., *see* Goldfarb, G.

Lecky, J. H.: Anesthetic Pollution in the Operating Room: A Notice to Operating Room Personnel, **52:** 157

Ledingham, I. M. (ed.), Hanning, C. D. (ed.): Recent Advances in Critical Care Medicine, **61:** 641

Ledray, G. C., Bashein, G.: Improved Draping for Pulmonary-Artery Catheterization, **57:** 423

Lee, C., Durant, N. N., Au, E., Katz, R. L.: Reversal of Dantrolene Sodium-induced Depression of Skeletal Muscle in the Cat, **54:** 61

Lee, C., *see* Bishay, E. G.; *also see* Durant, N. N.

Lee, D. A.: Allaying Fear of Anesthesia in Children, **55:** 189

Lee, D. D., Chestnut, J. S.: A Simplified Method of External Jugular Vein Cannulation, **60:** 81

Lee, K. W., *see* Karl, H. W.

Lee, K. W. T., Downes, J. J.: Pulmonary Edema Secondary to Laryngospasm in Children, **59:** 347

Lee, R., *see* Hirshman, C. A.

Lee, T. S., *see* Bennett, R. L.

Lees, D. E., Kim, Y. D., Bull, J. M., Whang-Peng, J., Schuette, W., Smith, R., Macnamara, T. E.: Anesthetic Management of Whole-body Hyperthermia for the Treatment of Cancer, **52:** 418

Lees, D. E., *see* Macnamara, T. E.

Lefer, A. M., Saba, T. M., Mela, L. M.: Advances in Shock Research, **52:** 197

Lefevre, P., *see* Prokocimer, P.

Leff, S., *see* Borland, L. M.

Legler, D., Nugent, M.: Doppler Localization of the Internal Jugular Vein Facilitates Central Venous Cannulation, **60:** 481

Lehane, J. R., *see* Jordan, C.

Leibel, W. S., Martyn, J. A. J., Szyfelbein, S. K., Miller, K. W.: Elevated Plasma Bind-

ing Cannot Account for the Burn-related *d*-Tubocurarine Hyposensitivity, **54:** 378
Lell, W. A., *see* Reves, J. G.
Lemaire, F., Regnier, B., Simoneau, G., Harf, A.: Positive End-expiratory Pressure (PEEP) Ventilation Suppresses the Increase of Shunting Caused by Dopamine Infusion, **52:** 376
Lemaire, F., Richalet, J. P., Carlet, J., Brun-Buisson, C., MacLean, C.: Postoperative Hypoxemia Due to Opening of a Patent Foramen Ovale Confirmed by a Right Atrium-Left Atrium Pressure Gradient during Mechanical Ventilation, **57:** 233
Lena, D. M., *see* Zmyslowski, W. P.
Lennon, R. L., Sundt, T. M., Jr., Gronert, G. A.: Combined Cesarean Section and Clipping of Intracerebral Aneurysm, **60:** 240
Leon, D. A., *see* Downes, H.; *also see* Hirshman, C. A.; Koga, Y
Leonard, P. F., *see* Warner, M. E.
Leon-Ruiz, E. N.: A Simple Way to Convert *p*H to Hydrogen Ion Concentration, **59:** 155
Lerman, J.: Is Nothing Certain with Small Sample Sizes, **61:** 219
Lerman, J., Gregory, G. A., Willis, M. M., Eger, E. I., II: Age and Solubility of Volatile Anesthetics in Blood, **61:** 139
Lerman, J., Robinson, S., Willis, M. M., Gregory, G. A.: Anesthetic Requirements for Halothane in Young Children 0-1 Month and 1-6 Months of Age, **59:** 421
Lerman, J., Willis, M. M., Gregory, G. A., Eger, E. I., II: Osmolarity Determines the Solubility of Anesthetics in Aqueous Solutions at 37°, **59:** 564
Lescanic, M. L., Miller, E. D., Jr., DiFazio, C. A., Beckman, J. J., Moscicki, J.: The Effects of Lidocaine on the Whole Body Distribution of Radioactively Labeled Microspheres in the Conscious Rat, **55:** 269
Lessard, L., *see* Bourke, D. L.
LeTard, F. X., *see* Diaz, J. H.
Leventhal, S. R., Orkin, F. K., Hirsh, R. A.: Prediction of the Need for Postoperative Mechanical Ventilation in Myasthenia Gravis, **53:** 26
Levinson, G., *see* Amiel-Tison, C.; *also see* Kotelko, D. M.; Snider, S. M.; Stefani, S. J.
Levy, J. H., *see* Bellows, W. H.
Levy, T., *see* Graybar, G.
Levy, W. J.: Hypothermia and the Electroencephalogram, **58:** 396
Levy, W. J.: Intraoperative EEG Patterns: Implications for EEG Monitoring, **60:** 430
Levy, W. J.: Quantitative Analysis of EEG Changes during Hypothermia, **60:** 291
Levy, W. J., Shapiro, H. M., Maruchak, G., Meathe, E.: Automated EEG Processing for Intraoperative Monitoring: A Comparison of Techniques, **53:** 223
Levy, W. J., Shapiro, H. M., Meathe, E.: The Identification of Rhythmic EEG Artifacts by Power-spectrum Analysis, **53:** 505
Levy, W. J., *see* Schwartz, A. J.
Lewis, C. M., *see* deKock, M. A.
Lewis, F., *see* Mihm, F. G.
Liban, B., *see* Herr, G. P.
Liberthson, R. R., *see* Brown, M.
Lichtigfeld, F. J., *see* Gillman, M. A.
Lichtor, J. L., Odell, C. A.: Another Method for Distinguishing Arterial from Venous Puncture, **52:** 448
Lieberman, R. W., Orkin, F. K., Jobes, D. R., Schwartz, A. J.: Hemodynamic Predictors of Myocardial Ischemia during Halothane Anesthesia for Coronary-Artery Revascularization, **59:** 36
Lieberman, R. W., *see* Gallagher, J. D.
Liebeskind, J. C.: Multiple Mechanisms of Pain Inhibition Intrinsic to the Central Nervous System, **54:** 445
Light, R. B., Mink, S. N., Wood, L. D. H.: The Effect of Unilateral PEEP on Gas Exchange and Pulmonary Perfusion in Canine Lobar Pneumonia, **55:** 251
Light, R. W., *see* George, R. B.
Lilburn, J. K., *see* Klein, S. L.
Lillie, P. E., Glynn, C. J., Fenwick, D. G.: Site of Action of Intravenous Regional Anesthesia, **61:** 507
Lilly, D. J., *see* Samra, S. K.
Lilly, J. K., Hoy, R. H.: Thiopental Anaphylaxis and Reagin Involvement, **53:** 335
Lim, K., *see* Giffin, J. P.
Lim, M., Linton, R. A. F., Band, D. M.: Continuous Intravascular Monitoring of Epinephrine-induced Changes in Plasma Potassium, **57:** 272
Limjuco, R. A., *see* Greenblatt, D. J.
Limoge, A., *see* Stanley, T. H.
Lind, R. C., Gandolfi, A. J., Sipes, I. G., Brown, B. R., Jr.,: The Involvement of Endotoxin in Halothane-associated Liver Injury, **61:** 544
Lind, R. C., *see* Maiorino, R. M.
Lindauer, J. M., *see* White, P. F.
Linde, H. W., Avram, M. J., Hong, K., Trudell, J. R., O'Neil, J. R., Cohen, E. N.: Biotransformation of Nitrous Oxide, **53:** 354
Linde, H. W., *see* Benzon, H. T.; *also see* Bruce, D. L.; Land, P. C.
Linde, H. W. (ed.), *see* Echenhoff, J. E. (ed.)
Lindén, H. B., *see* Rosenberg, P. H.
Lindgren, L., *see* Domino, K. B.; *also see* Glasser, S. A.; Marshall, C.
Lindquist, C., *see* Sollevi, A.
Lindsey, R. L.: A Simple Solution for Determining Shunt Flow during Carotid Endarterectomy, **61:** 215
Lineberry, C. G., *see* Ramsey, F. M.; *also see* Savarese, J. J.; Sokoll, M. D.
Lingeman, J. E., *see* Roesch, R. P.
Lingenfelter, R. W.: Fatal Misuse of Enflurane, **55:** 603
Lingenfelter, R. W.: Hazard of a New Epidural Catheter, **58:** 292
Linko, K.: Testing of a New In-line Blood Warmer, **52:** 445
Linko, K., Cullen, D. J.: Evaluation of Blood Microfilters, **54:** 431
Linton, R. A. F., *see* Lim, M.
Lippmann, M.: Enflurane Antiarrhythmic Effect Documented, **52:** 101
Lips, F. J., Newland, M., Dutton, G.: Malignant Hyperthermia Triggered by Cyclopropane during Cesarean Section, **56:** 144
Lips, F. J., *see* Seow, L. T.
Lipton, S.: Relief of Pain in Clinical Practice, **53:** 528
Lisbon, A., *see* Stein, J. M.
Lisman, S. R.: A New Method for Inhalation Induction in the Child, **60:** 168
Lisman, S. R., Shepherd, N. J., Rosenberg, M.: A Modified Laryngoscope Blade for Dental Protection, **55:** 190
Lister, G., *see* Quan, S. F.
Little, D. M., Jr.: The Founding of the Specialty Boards, **55:** 317
Littlejohn, G., *see* Hirshman, C. A.
Liu, K. H., *see* Cohen, S.
Liu, L. M. P., Cote, C. J., Goudsouzian, N. G., Ryan, J. F., Firestone, S., Dedrick, D. F., Liu, P. L., Todres, I. D.: Life-threatening Apnea in Infants Recovering from Anesthesia, **59:** 506
Liu, L. M. P., DeCook, T. H., Goudsouzian, N. G., Ryan, J. F., Liu, P. L.: Dose Response to Intramuscular Succinylcholine in Children, **55:** 599
Liu, L. M. P., Goudsouzian, N. G., Liu, P. L.: Rectal Methohexital Premedication in Children, a Dose-comparison Study, **53:** 343
Liu, L. M. P., Liu, P. L.,, Moss, J.: Severe Histamine-mediated Reaction to Rectally Administered Methohexital, **61:** 95
Liu, L. M. P., *see* Coté, C. J.; *also see* Goudsouzian, N. G.; Martyn, J. A. J.
Liu, P. L., *see* Liu, L. M. P.; *also see* Jumper, A.
Lo, J. N., Buckley, J. J., Kim, T. H., Lopez, R.: Anesthesia for High-dose Total Body Irradiation in Children, **61:** 101
Lobes, L., *see* Chang, J.-L.
Locniskar, A., *see* Greenblatt, D. J.
Loder, R. E.: Lidocaine–Dextran Solutions, **53:** 522
Loeber, N., *see* Quasha, A. L.
Loeser, E. A., Bennett, G. M., Orr, D. L., Stanley, T. H.: Reduction of Postoperative Sore Throat with New Endotracheal Tube Cuffs, **52:** 257
Loeser, E. A., Kaminsky, A., Diaz, A., Stanley, T. H., Pace, N. L.: Endotracheal Tube Cuff Design and Cuff Lubrication in Postoperative Sore Throat, **58:** 376
Loeser, E. A., *see* Youngberg, J. A.
Loesevitz, A., *see* Russ, W.

Löfström, B., *see* Hedenstierna, G.
Loh, H. H., Ross, D. H.: Neurochemical Mechanisms of Opiates and Endorphins, **52:** 530
Lombard, T. P., Couper, J. L.: Bilateral Spread of Analgesia Following Interscalene Brachial Plexus Block, **58:** 472
Lombardi, M., *see* Nicosia, F.
Lomessy, A., Magnin, C., Viale, J.-P., Motin, J., Cohen, R.: Clinical Advantages of Fentanyl Given Epidurally for Postoperative Analgesia, **61:** 466
Long, C. D., *see* Cooper, J. B.
Long, D. L., *see* Toung, T.
Long, D. M., *see* Mahla, M. E.
Longmire, S., Joyce, T. H., III: Treatment of a Duro-cutaneous Fistula Secondary to Attempted Epidural Anesthesia with an Epidural Autologous Blood Patch, **60:** 63
Longnecker, D. E.: Stress Free: To Be or Not to Be, **61:** 643
Longnecker, D. E.: Support versus Illumination: Trends in Medical Statistics, **57:** 73
Longnecker, D. E., Ross, D. C., Silver, I. A.: Anesthetic Influence on Arteriolar Diameters and Tissue Oxygen Tension in Hemorrhaged Rats, **57:** 177
Longnecker, D. E., *see* Arnold, W. P.; *also see* Marshall, W. K.; Seyde, W. C.; Woodside, J. R., Jr.
Loomis, J. C., *see* Sorbo, S.
Lopez, F., *see* Miralles, F. S.
Lopez, R., *see* Lo, J. N.
Lord, J., *see* Zimmerman, B. L.
Lou, C. G., *see* Chapin, J. W.
Loubser, P., Suh, K., Cohen, S.: Adverse Effects of Spinal Anesthesia in a Patient with Idiopathic Hypertrophic Subaortic Stenosis, **60:** 228
Louville, Y., *see* Stanley, T. H.
Lovelock, H. A., *see* Pollard, B. J.
Lowenstein, E., Foëx, P., Francis, C. M., Davies, W. L., Yusuf, S., Ryder, W. A.: Regional Ischemic Ventricular Dysfunction in Myocardium Supplied by a Narrowed Coronary Artery with Increasing Halothane Concentration in the Dog, **55:** 349
Lowenstein, E., Hill, R. D., Rajagopalan, B., Schneider, R. C.: Winnie the Pooh Revisited, or, The More Recent Adventures of Piglet, **56:** 81
Lowenstein, E., Johnston, W. E., Lappas, D. G., D'Ambra, M. N., Schneider, R. C., Daggett, W. M., Akins, C. W., Philbin, D. M.: Catastrophic Pulmonary Vasoconstriction Associated with Protamine Reversal of Heparin, **59:** 470
Lowenstein, E., Philbin, D. M.: Narcotic "Anesthesia" in the Eighties, **55:** 195
Lowenstein, E., Teplick, R.: To (PA) Catheterize or Not to (PA) Catheterize—That is the Question, **53:** 361
Lowenstein, E., Yusuf, S., Teplick, R. S., Peto, R.: Perioperative Myocardial Reinfarction: A Glimmer of Hope—A Note of Caution, **59:** 493
Lowenstein, E., *see* Bellows, W. H.; *also see* Brown, M.; Davis, R. F.
Lubbers, D. W. (ed.), *see* Huch, R. (ed.)
Lubin, A. H., *see* Abouleish, E.
Luich, P. E.: Adapter Kit to Update APL Valves, **58:** 200
Luich, R. J.: CO_2 Absorber Malassembly, **59:** 608
Luich, R. J.: Manufacturer's Comment, **58:** 585
Luich, R. J.: Reply, **61:** 222
Lund, B. A., *see* Dyck, P. J.
Lundh, R., *see* Hedenstierna, G.
Lunn, J. J., Rorie, D. K.: Halothane-induced Changes in the Release and Disposition of Norepinephrine at Adrenergic Nerve Endings in Dog Saphenous Vein, **61:** 377
Lunn, J. N.: Lecture Notes on Anaesthetics, **53:** 92
Lurz, F. W., *see* Koblin, D. D.
Lutsky, I., Witkowski, J., Henschel, E. O.: HLA Typing in a Family Prone to Malignant Hyperthermia, **56:** 224
Luyckx, C., *see* d'Hollander, A. A.
Lyden, P. D., Kinyon, G.: Cerebellar Infarction due to Embolization during Tumor Resection, **60:** 619
Lydon, J. C., Spielman, F. J.: Bilateral Compartment Syndrome Following Prolonged Surgery in the Lithotomy Position, **60:** 236
Lynch, C., III,: Are Volatile Anesthetics Really Calcium Entry Blockers, **61:** 644
Lynch, C., III, Vogel, S., Sperelakis, N.: Halothane Depression of Myocardial Slow Action Potentials, **55:** 360
Lynch, F., *see* Alfery, D. D.
Lynn, R. B., *see* Milne, B.
Lyons, T. E.: A Simplified Method of CPAP Delivery to the Nonventilated Lung during Unilateral Pulmonary Ventilation, **61:** 216
Lytle, B., *see* Zurick, A. M.

M

Maassab, H. F., *see* Knight, P. R.
MacEwen, G. D., *see* Naidu, R.
Mack, C. W., *see* Kacmarek, R. M.
Mackay, W., *see* Dauchot, P. J.
Mackenzie, C. F., *see* Etter, M. S.
MacLean, C., *see* Lemaire, F.
MacLeod, B. A., Augereau, P., Walker, M. J. A.: Coronary Ligation with Halothane and Fentanyl, **58:** 44
MacLeod, B. A., *see* Jang, T. L.
MacMurdo, D., *see* Abouleish, E.
MacMurdo, S. D., Jakymec, A. J., Bleyaert, A. L.: Precautions in the Anesthetic Management of a Patient with Creutzfield-Jacob Disease, **60:** 590
MacMurdo, S. D., Nemoto, E. M., Nikki, Pertti, Frankenberry, M. J.: Brain Cyclic-AMP and Possible Mechanisms of Cerebrovascular Dilation by Anesthetics in Rats, **55:** 435
Macnamara, T. E., Lees, D. E.: A Departmental Logo for Anesthesiologists, **53:** 353
Macnamara, T. E., *see* Dubois, M.; *also see* Hanowell, S. T.; Lees, D. E.; Park, W. Y.
Macri, J., *see* Fairhurst, A. S.
Madala, L. R., *see* Albrecht, R. F.
Mae, O., *see* Ueda, W.
Maekawa, T., Oshibuchi, T., Takeshita, H., Imamura, A.: Cerebral Energy State and Glycolytic Metabolism during Lidocaine Infusion in the Rat, **54:** 278
Maekawa, T., *see* Sakabe, T.; *also see* Tateishi, A.; Tommasino, C.
Magnin, C., *see* Lomessy, A.
Magruder, M. R., *see* Lake, C. L.
Mahla, M. E., Long, D. M., McKennett, J., Green, C., McPherson, R. W.: Detection of Brachial Plexus Dysfunction by Somatosensory Evoked Potential Monitoring—A Report of Two Cases, **60:** 248
Mahomed, Y., Moorthy, S. S., Brown, J. W., King, R. D.: ECG Changes with Papaverine Injection into Coronary Artery Bypass Grafts, **61:** 350
Mahomed, Y., *see* Wilson, S. W.
Mainzer, J., Jr.: Awareness during Fentanyl Anesthesia, **56:** 331
Maiorino, R. M., Sipes, I. G., Gandolfi, A. J., Brown, B. R., Jr., Lind, R. C.: Factors Affecting the Formation of Chlorotrifluoroethane and Chlorodifluoroethylene from Halothane, **54:** 383
Male, C. G., *see* Allen, E. M.
Malkinson, C. E., *see* Atlee, J. L., III
Malone, B. T., Davis, T. M.: Failure of a New System to Prevent Delivery of Hypoxic Gas Mixture, **54:** 436
Manawadu, B. R., *see* Witt, W. O.
Manchikanti, L., Marrero, T. C., Roush, J. R.: Preanesthetic Cimetidine and Metoclopramide for Acid Aspiration Prophylaxis in Elective Surgery, **61:** 48
Mandell, V. S., *see* Spielman, F. J.
Maneksha, F. R., Betta, J., Zawin, M., Poppers, P. J.: Intraoperative Hypoxia and Hypotension Caused by Gastrografin-induced Hypovolemia, **61:** 454
Mangano, D. T.: Immediate Hemodynamic and Pulmonary Changes Following Pulmonary Thromboembolism, **52:** 173
Mangano, D. T.: Monitoring Pulmonary Arterial Pressure in Coronary-artery Disease, **53:** 364
Mangano, D. T., *see* Wolf, S.
Mankowitz, E., *see* Downing, J. W.
Mann, E. S., Sprague, D. H.: An Easily Overlooked Malassembly, **56:** 413
Mann, E. S., *see* Spielman, F. J.
Manohar, M., *see* Tranquilli, W. J.
Mans, A. M., *see* Davis, D. W.
Mantia, A. M.: A Defective Washington T-

piece: An Example of Inevitable Failure and Lessons to Be Learned, **59:** 167
Mantia, A. M.: Clinical Report of the Occurrence of an Intracerebral Hemorrhage Following Postlumbar Puncture Headache, **55:** 684
Mantia, A. M., Schmidt, W. G.: High Leakage Current in New In-Line Blood Warmer, **54:** 257
Mapelson, W. W., *see* Mushin, W. W.
Mardis, M., *see* Kissin, I.
Margolis, A., *see* Horrigan, R. W.; *also see* White, P. F.
Marino, R. J., *see* Spalitta, J. T.
Mark, J. BD, *see* Brodsky, J. B.
Mark, L. C.: A Lone Case of Gangrene Following Intraarterial Thiopental 2.5%, **59:** 153
Mark, L. C.: Acute Tolerance to Thiopental is Alive and Well, **60:** 526
Mark. L. C.: The "Puff Technic" for Intravenous Diazepam, **61:** 630
Mark, L. C., Poppers, P. J.: The Dilemma of General Anesthesia for Cesarean Section: Adequate Fetal Oxygenation *vs.* Maternal Awareness during Operation, **56:** 405
Mark, L. C., Poppers, P. J.: Thiopental Anesthesia for Cesarean Section: A Rebuttal, **59:** 158
Mark, L. C., *see* Andrews, P. R.; *also see* Mertens, Ph.
Marks, W. E., Jr.: A Plea for the Routine Use of Oxygen Analyzers, **59:** 159
Maroko, P. R., *see* Davis, R. F.
Marquez, J., Sassano, J. J., Winter, P. M., Waterman, P. M.: Double-lumen Right Atrial Catheter for Open Heart Surgery, **58:** 394
Márquez-Montes, J., *see* Gómez-Arnau, J.
Marrero, T. C., *see* Manchikanti, L.,
Marron, G. M., *see* Aldrete, J. A.
Marschall, K. E.: Did Anesthetic Mismanagement Contribute to Intraoperative Death? III, **61:** 792
Marschall, K. E.: Tension Pneumocephalus, **58:** 301
Marsh, H. M., Rehder, K., Knopp, T. J.: Analgesia, Anesthesia and Chest Wall Motion, **55:** 493
Marsh, M. L., *see* Berry, A. J.
Marshall, B. E.: Another Point of View on Intermittent Hypoxia, **55:** 200
Marshall, B. E., Berry, A. J., Marshall, C., Geer, R. T.: Influence of Ventilation on Response to Fluid Load in Dogs: Body Water and Albumin Distribution, **57:** 103
Marshall, B. E., *see* Berry, A. J.; *also see* Domino, K. B.; Glasser, S. A.; Kim, Y. L.; LaMantia, K. R.; Marshall, C.; Richman, K. A.; Schumer, W.; Williams, J. J.
Marshall, C., Lindgren, L., Marshall, B. E.: Effects of Halothane, Enflurane, and Isoflurane on Hypoxic Pulmonary Vasoconstriction in Rat Lungs *In Vitro*, **60:** 304
Marshall, C., *see* Berry, A. J.; *also see* Domino, K. B.; Glasser, S. A.; Marshall, B. E.
Marshall, L. F., *see* Rockoff, M. A.; *also see* Todd, M. M.
Marshall, W. K., Bedford, R. F.: Use of a Pulmonary-artery Catheter for Detection and Treatment of Venous Air Embolism: A Prospective Study in Man, **52:** 131
Marshall, W. K., Bedford, R. F., Arnold, W. P., Miller, E. D., Longnecker, D. E., Sussman, M. D., Hakala, M. W.: Effects of Propranolol on the Cardiovascular and Renin-Angiotensin Systems during Hypotension Produced by Sodium Nitroprusside in Humans, **55:** 277
Marshall, W. K., *see* Perkins-Pearson, N. A. K.
Martin, R., Salbaing, J., Blaise, G., Tétrault, J.-P., Tétreault, L.: Epidural Morphine for Postoperative Pain Relief: A Dose-response Curve, **56:** 423
Martin, R. W., Ashleman, B., Colley, P. S.: Effects of Cardiac Output on the Clearance of Air Emboli from the Superior Vena Cava, **60:** 580
Martin, R. W., Colley, P. S.: Transesophageal Doppler Detection of Air Embolism, **58:** 117
Marty, J., Couture, J., De Champlain, J.: Plasma-Sulfate–Conjugated Catecholamines during Anesthesia, **59:** 162
Marty, J., Nitenberg, A., Blanchet, F., Laffay, N., Mazze, R. I., Desmonts, J.-M.: Effects of Droperidol on Left Ventricular Performance in Humans, **57:** 22
Martyn, J. A. J., Liu, L. M. P., Szyfelbein, S. K., Ambalabanar, E. S., Goudsouzian, N. G.: The Neuromuscular Effects of Pancuronium in Burned Children, **59:** 571
Martyn, J. A. J., Szyfelbein, S. K., Ali, H. H., Matteo, R. S., Savarese, J. J.: Increased *d*-Tubocurarine Requirement Following Major Thermal Injury, **52:** 352
Martyn, J. A. J., *see* Leibel, W. S.
Martz, K. V., Joiner, J., Shepherd, R. M.: Management of the Patient-Ventilator System, **52:** 530
Martz, R., *see* Kolb, M. E.
Maruchak, G., *see* Levy, W. J.
Maruschak, G. F., Schauble, J. F.: Simplified Method of Preparing Iced Injectate for Thermodilution Cardiac Output, **55:** 713
Maruta, H., *see* Asari, H.
Maruyama, Y., *see* Shimoji, K.
Marx, G. F.: Cardiopulmonary Resuscitation of Late-Pregnant Women, **56:** 156
Marx, G. F.: Cardiotoxicity of Local Anesthetics—The Plot Thickens, **60:** 3
Marx, G. F.: Reply, **61:** 218
Marx, G. F., Bassell, G. M.: In Defense of the Use of *d*-Tubocurarine prior to Succinylcholine in Obstetrics, **59:** 157
Marx, G. F., Bassell, G. M.: Obstetric Analgesia and Anesthesia, **54:** 532
Marx, G. F., Costin, M.: Thiopental Anesthesia for Cesarean Section, **57:** 547
Marx, G. F., *see* Berman, J. A.; *also see* Cohen, S.; Jawalekar, S. R.
Marx, G. F. (ed.): Clinical Management of Mother and Newborn, **52:** 289
Maseda, J., Hilberman, M., Derby, G. C., Spencer, R. J., Stinson, E. B., Myers, B. D.: The Renal Effects of Sodium Nitroprusside in Postoperative Cardiac Surgical Patients, **54:** 284
Maseda, J., *see* Hilberman, M.
Mashimo, T., Tashiro, Chikara, Yoshiya, I.: Effects of Volatile Anesthetics on Light-induced Proton Uptake of Rhodopsin in Bovine Rod Outer Segment Disk Membrane, **61:** 439
Mashimo, T., *see* Kamaya, H.
Mason, D. M., Jr., *see* Maze, M.
Mason, L. J., Betts, E. K.: Leg Lift and Maximum Inspiratory Force, Clinical Signs of Neuromuscular Blockade Reversal in Neonates and Infants, **52:** 441
Mason, W. T., *see* Bangham, A. D.
Massengale, M. D., *see* Park, W. Y.
Masson, N., *see* Solomons, C. C.
Masuda, T., Ikeda, K.: Elimination of Nitrous Oxide Accelerates Elimination of Halothane: Reversed Second Gas Effect, **60:** 567
Mather, L. E., *see* Austin, K. L.; *also see* Cousins, M. J.; Glynn, C. J.; Seow, L. T.
Mathers, W. D., *see* Sarnquist, F. H.
Mathews, M., *see* Weibel, S.
Mathews, W. S., Mote, P. S.: The Topical Use of Sodium Nitroprusside for Relief of Intraoperative Arterial Spasm, **61:** 776
Mathieu, A. (ed.), Burke, J. F. (ed.): Infection and the Perioperative Period, **61:** 485
Mathru, M., *see* Rao, T. L. K.
Matlak, M. E., *see* Roberts, L. S.
Matloff, J., *see* Sethna, D.
Matsuki, A.: Clinical Use of Intrathecal Morphine, **58:** 289
Matsuki, A.: New Pediatric Laryngoscope, **57:** 556
Matsuki, A., *see* Yamashita, M.
Matsumiya, N., Dohi, S.: Effects of Intravenous or Subarachnoid Morphine on Cerebral and Spinal Cord Hemodynamics and Antagonism with Naloxone in Dogs, **59:** 175
Matsumiya, N., *see* Dohi, S.
Matsumoto, M., *see* Collins, J. G.; *also see* Dohi, S.; Homma, E.; Suzukawa, M.; Sumikawa, K.
Matsuura, H., *see* Goromaru, T.
Matteo, R. S., Brotherton, W. P., Nishitateno, K., Khambatta, H. J., Dias, J.: Pharmacodynamics and Pharmacokinetics of Metocurine in Humans: Comparison to *d*-Tubocurarine, **57:** 183
Matteo, R. S., Nishitateno, K., Pua, E. K., Spector, S.: Pharmacokinetics of *d*-Tubocurarine in Man: Effect of an Osmotic Diuretic on Urinary Excretion, **52:** 335
Matteo, R. S., *see* Brotherton, W. P.; *also see* Chen, R. Y. Z.; Martyn, J. A. J.

Matthay, R. A., *see* George, R. B.
Matubayasi, N., Ueda, I.: Is Membrane Expansion Relevant to Anesthesia? Mean Excess Volume, **59:** 551
Mayer, B. W.: Pediatric Anesthesia, **57:** 71
Mayersohn, M., *see* Jung, D.
Mayhew, J., Taylor, B.: Neonatal Sepsis and Anesthesia, **59:** 77
Mayumi, T., *see* Dohi, S.
Maze, A., Samuels, S. I.: Hypoglycemia-induced Seizures in an Infant during Anesthesia, **52:** 77
Maze, M.: Clinical Implications of Membrane Receptor Function in Anesthesia, **55:** 160
Maze, M., Mason, D. M., Jr., Kates, R. E.: Verapamil Decreases MAC for Halothane in Dogs, **59:** 327
Maze, M., Smith, C. M.: Identification of Receptor Mechanism Mediating Epinephrine-induced Arrhythmias during Halothane Anesthesia in the Dog, **59:** 322
Maze, M., *see* Samuels, S. I.
Mazuzan, J. E., *see* Shinozaki, T.
Mazza, N., Wald, A.: Failure of Battery-operated Alarms, **53:** 246
Mazze, R. I.: Bacterial Air Filters, **54:** 359
Mazze, R. I.: Mortality Rates and Exposure to Anesthetics, **52:** 281
Mazze, R. I.: Waste Anesthetic Gases and the Regulatory Agencies, **52:** 248
Mazze, R. I., Sievenpiper, T. S., Stevenson, J.: Renal Effects of Enflurane and Halothane in Patients with Abnormal Renal Function, **60:** 161
Mazze, R. I., Woodruff, R. E., Heerdt, M. E.: Isoniazid-induced Enflurane Defluorination in Humans, **57:** 5
Mazze, R. I., *see* Baden, J. M.; *also see* Duvaldestin, P.; Fish, K.; Marty, J.; Prokocimer, P.; Rice, S. A.; Spiegelman, W. G.; Virtue, R. W.; Wharton, R. S.
Mazzei, W. J., *see* Ozanne, G. M.
Mc Ginnis, L. A., *see* Kofke, W. A.
Mc Nicholas, K., *see* Moore, R. A.
McCammon, R. L., Stoelting, R. K.: Exaggerated Increase in Serum Potassium Following Succinylcholine in Dogs with Beta Blockade, **61:** 723
McCann, S. R., *see* O'Sullivan, H.
McClain, D. A., *see* Murphy, M. R.
McCormack, P. M., *see* Carlon, G. C.
McCoy, D. D., Miller, M. G.: Epidural Morphine in a Terminally Ill Patient, **57:** 427
McDanal, J. T., Wheeler, D. M., Ebert, J.: A Complication of Nasogastric Intubation: Pulmonary Hemorrhage, **59:** 356
McDonald, D. H., Zaidan, J. R.: Hemodynamic Effects of Pancuronium and Pancuronium Plus Metocurine in Patients Taking Propranolol, **60:** 359
McDonald, D. H., Zaidan, J. R.: Pressure–Volume Relationships of the Pulmonary Artery Catheter Balloon, **59:** 240
McDonald, J. S., *see* Dehring, D. J.; *also see* Goldman, E.
McDonnell, T. E., Bartkowski, R. R., Williams, J. J.: ED_{50} of Alfentanil for Induction of Anesthesia in Unpremedicated Young Adults, **60:** 136
McDowall, D. G., *see* Ishikawa, T.; *also see* Morris, P. J.
McGee, T., *see* Kissin, I.
McGill, T. J. I. (ed.), *see* Healy, G. B. (ed.)
McGill, W. A., Rivera, O., Howard, R.: Time-weighted Averaging for Nitrous Oxide: An Automated Method, **53:** 424
McGill, W. A., *see* Hannallah, R. S.
McGuinness, G. A., *see* Merkow, A. J.
McHenry, R. N., *see* Shoup, C. A.
McKennett, J., *see* Mahla, M. E.
McKenzie, R., *see* Boucek, C. D.
McLain, S., *see* Roy, R. C.
McLean, W. C., *see* Stone, D. J.
McLeskey, C. H.: Radial Arterial Pseudoaneurysm Following Cannulation, **53:** 266
McLeskey, C. H., Cheney, F. W.: A Correctable Complication of Cardiopulmonary Bypass, **56:** 214
McLeskey, C. H., Jaffe, T. B.: Reply to: Functional Anatomy of the Cervical Sympathetic Trunk, **57:** 139
McLeskey, C. H., *see* Burch, P. G.; *also see* Stevenson, P. H.
McLesky, C. H., *see* Jaffe, T. B.
McMahon, D. J., Holm, R., Batra, M. S.: Yet Another Machine Fault, **58:** 586
McMahon, D. J., Mulroy, M. F., Balfour, R. I.: A Monitor for Rate–Pressure Product, **53:** 508
McMorland, G. H., *see* Moir, C. L.
McNicholas, K. W., *see* Moore, R. A.
McNiece, W. L., Krishna, G.: Kawasaki Disease—Anesthetic Implications, **58:** 269
McPherson, R. W., North, R. B., Udvarhelyi, G. B., Rosenbaum, A. E.: Migrating Disc Complicating Spinal Decompression in an Achondroplastic Dwarf: Intraoperative Demonstration of Spinal Cord Compression by Somatosensory Evoked Potentials, **61:** 764
McPherson, R. W., Szymanski, J., Rogers, M. C.: Somatosensory Evoked Potential Changes in Position-related Brain Stem Ischemia, **61:** 88
McPherson, R. W., Traystman, R. J.: Fentanyl and Cerebral Vascular Responsivity in Dogs, **60:** 180
McPherson, R. W., *see* Mahla, M. E.
McTaggart, R. A., Shustack, A., Noseworthy, T., Johnston, R.: Another Cause of Obstruction in an Armored Endotracheal Tube, **59:** 164
Meakin, G., Sweet, P. T., Bevan, J. C., Bevan, D. R.: Neostigmine and Edrophonium as Antagonists of Pancuronium in Infants and Children, **59:** 316
Meathe, E., *see* Hudson, R. J.; *also see* Lævy, W. J.
Mecca, R. S., *see* Hood, D. D.
Mefford, I., *see* Smith, D. F.
Mehta, M., *see* Sokoll, M. D.
Mehta, M. P., Gergis, S. D., Sokoll, M.: Paradoxical Diuresis in Some Neurosurgical Patients Under Balanced Anesthesia, **59:** 595
Meignier, M., Souron, R., Le Neel, J.-C.: Postoperative Lumbar Epidural Analgesia in the Child with Respiratory Disabilities, **59:** 473
Meis, P. J., *see* Wheeler, A. S.
Meisel, L. B., *see* Naulty, J. S.
Mela, L. M., *see* Lefer, A. M.
Melding, P., *see* Thompson, K. J.
Mellstrand, T., *see* Nordberg, G.
Melnick, B., Chang, J.-L., Larson, C. E., Bedger, R. C.: Hypokalemic Familial Periodic Paralysis, **58:** 263
Melnick, B. M.: Postlaryngospasm Pulmonary Edema in Adults, **60:** 516
Melvin, M. A., Johnson, B. H., Quasha, A. L., Eger, E. I., II: Induction of Anesthesia with Midazolam Decreases Halothane MAC in Humans, **57:** 238
Mendez, H., *see* Weinberg, S.
Meranze, J., *see* Gallagher, J. D.
Mercurio, A., *see* Wald, A.
Merin, R. G.: Clinical Implications of Effects of Thoracic Epidural Anesthesia on Endocardial/Epicardial Flow Distribution Ratio Are Not Justified, **53:** 349
Merin, R. G.: Is Anesthesia Beneficial for the Ischemic Heart, **53:** 439
Merin, R. G.: Is Anesthesia Beneficial for the Ischemic Heart? II, **55:** 341
Merin, R. G.: Slow Channel Inhibitors, Anesthetics, and Cardiovascular Function, **55:** 198
Merin, R. G., Basch, S.: Are the Myocardial Functional and Metabolic Effects of Isoflurane Really Different from Those of Halothane and Enflurane, **55:** 398
Merin, R. G., Verdouw, P. D., de Jong, J. W.: Myocardial Functional and Metabolic Responses to Ischemia in Swine during Halothane and Fentanyl Anesthesia, **56:** 84
Merkow, A. J., McGuinness, G. A., Erenberg, A., Kennedy, R. L.: The Neonatal Neurobehavioral Effects of Bupivacaine, Mepivacaine, and 2-Chloroprocaine Used for Pudendal Block, **52:** 309
Merrell, R. C., *see* Brodsky, J. B.
Mertens, Ph., Morgan, D. J., Blackman, G. L., Paull, J. D., Mark, L. C., Stanski, D. R.: Pitfalls in Deriving Pharmacokinetic Variables. III, **56:** 237
Meshier, W. T., *see* Cannon, B. W.
Messick, J. M., *see* Adams, R. W.; *also see* Artru, A. A.; Cucchiara, R. F.
Messick, J. M., Jr.: Allen's Test—Neither Positive Nor Negative, **54:** 523
Messick, J. M., Jr., Cucchiara, R. F., Faust, R. J.: Airway Management in Patients with Acromegaly, **56:** 157
Metriyakool, K.: Seizures Induced by Methohexital, **55:** 718

Mette, P. J.: Avoiding Complications during Jet Ventilation, **52:** 451
Mewaldt, S. P., *see* Korttila, K.
Meyer, J. A., *see* Ciobanu, M.; *also see* Rendell-Baker, L.
Meyer, J. A., *see* Rendell-Baker, L.
Meyer, R. M.: A Case for Monitoring Oxygen in the Expiratory Limb of the Circle, **61:** 347
Meyers, E. F.: An Effective Low-cost Scavenging System, **52:** 277
Meyers, E. F., Singer, P., Otto, A.: A Controlled Study of the Effect of Succinylcholine Self-taming on Intraocular Pressure, **53:** 72
Michenfelder, J. D.: Accept, Revise, Reject or Punt: An Example of the Latter, **56:** 337
Michenfelder, J. D.: Barbiturates for Brain Resuscitation: Yes and No, **57:** 74
Michenfelder, J. D.: Central Venous Catheters in the Management of Air Embolism: Whether As Well As Where, **55:** 339
Michenfelder, J. D.: Exposure to Anesthetic Gases and Health Problems in Dental Workers, **53:** 1
Michenfelder, J. D.: In Defense of Double Negatives (as Exponents), **58:** 305
Michenfelder, J. D.: Who's Afraid of Blaise Pascal, **56:** 245
Michenfelder, J. D., *see* Adams, R. W.; *also see* Anderson, R. E.; Artru, A. A.; Gronert, G. A.; Newberg, L. A.; Nugent, M.; Steen, P. A.; Tinker, J. H.
Mihas, T., *see* Fassoulaki, A.
Mihic, D., Binkert, E., Novoselac, M.: The First Endotracheal Intubation, **52:** 523
Mihic, D. N.: Is the Application of an Esmarch Bandage Justified, **60:** 526
Mihm, F. G., Ashton, J. P. A.: Pulmonary Artery Catheters—The Shake–Flick Test, **59:** 263
Mihm, F. G., Feeley, T. W., Rosenthal, M. H., Lewis, F.: Measurement of Extravascular Lung Water in Dogs Using the Thermal-Green Dye Indicator Dilution Method, **57:** 116
Mihm, F. G., *see* Smith, D. F.; *also see* Stanski, D. R.
Mikat, M., Peters, J., Zindler, M., Arndt, J. O.: Whole Body Oxygen Consumption in Awake, Sleeping, and Anesthetized Dogs, **60:** 220
Mikat, M., *see* Arndt, J. O.
Milam, S. B., *see* Hilley, M. D.
Milde, J. H., *see* Gronert, G. A.; *also see* Newberg, L. A.; Steen, P. A.
Miletich, D. J., Gil, K. S. L., Albrecht, R. F., Zahed, B.: Intracerebral Blood Flow Distribution during Hypotensive Anesthesia in the Goat, **53:** 210
Miletich, D. J., *see* Albrecht, R. F.; *also see* Barrera, M.; Hoffman, W. E.; Pelligrino, D. A.
Milic-Emili, J., *see* Askanazi, J.; *also see* Higgs, B. D.
Millar, W. L.: Management of a Difficult Airway in Obstetrics, **52:** 523
Millen, J. E.: Technique for Changing Endotracheal Tube is Neither New nor Better, **54:** 352
Miller, C. F., Furman, W. R.: Symptomatic Pneumocephalus after Translabrynthine Acoustic Neuroma Excision and Nitrous Oxide, **58:** 281
Miller, D. C., *see* Hilberman, M.
Miller, E. D., Jr., *see* Woodside, J. R., Jr.; *also see* Marshall, W. K.
Miller, E. D., Jr.,: Renal Effects of Dopamine, **61:** 487
Miller, E. D., Jr., Beckman, J. J., Woodside, J. R., Jr., Althaus, J. S., Peach, M. J.: Sympathetic Nervous System, Renin, and Anesthesia, **58:** 32
Miller, E. D., Jr., Delaney, T. J.: Blood Flow Alteration Induced by Saralasin or Sodium Nitroprusside in Rats, **54:** 199
Miller, E. D., Jr., Kistner, J. R., Epstein, R. M.: Whole-body Distribution of Radioactively Labelled Microspheres in the Rat during Anesthesia with Halothane, Enflurane, or Ketamine, **52:** 296
Miller, E. D., Jr., *see* Delaney, T. J.; *also see* Lescanic, M. L.
Miller, E. V., *see* Drop, L. J.
Miller, J., *see* Clark, R. B.; *also see* Walts, L. F.
Miller, J. R., Benumof, J. L., Trousdale, F. R.: Combined Effects of Sodium Nitroprusside and Propranolol on Hypoxic Pulmonary Vasoconstriction, **57:** 267
Miller, K. W., *see* Leibel, W. S.
Miller, M. G., *see* McCoy, D. D.
Miller, P. L.: The "ATTENDING" Computer System, **58:** 362
Miller, R., *see* Hunter, A. R.
Miller, R. D., Bove, J. R.: Acquired Immunodeficiency Syndrome (AIDS) and Blood Products, **58:** 493
Miller, R. D., Cronnelly, R.: A New Look at an Old Drug, **59:** 84
Miller, R. D., Rupp, S. M., Fisher, D. M., Cronnelly, R., Fahey, M. R., Sohn, Y. J.: Clinical Pharmacology of Vecuronium and Atracurium, **61:** 444
Miller, R. D., *see* Cronnelly, R.; *also see* Dailey, P. A.; Fahey, M. R.; Fisher, D. M.; Gencarelli, P. J.; Ham, J.; Hennis, P. J.; Morris, R. B.; Rupp, S. M.; Scappaticci, K. A.; Stanski, D. R.
Miller, R. D. (ed.): Anesthesia, **57:** 147
Miller, R. D. (ed.), *see* Wilkenson, P. L. (ed.)
Miller, R. S. (ed.), *see* Smith, N. T. (ed.)
Milliken, R. A.: Bag Mount Detachment: A Function of Age, **56:** 154
Milliken, R. A.: Safe Anesthetic Gas Pollution Control, **57:** 543
Milliken, R. A., *see* Mustafa, K.; *also see* Patel, A.
Mills, S. A., *see* Johnston, W. E.
Milne, B., Cervenko, F. W., Morales, A., Salerno, T. A.: Massive Intraoperative Pulmonary Tumor Embolus from Renal Cell Carcinoma, **54:** 253
Milne, B., Spence, D., Lynn, R. B., Sleeman, D.: Unilateral Reexpansion Pulmonary Edema during Emergence from General Anesthesia, **59:** 244
Mink, S. N., *see* Light, R. B.
Miralles, F. S., Olaso, M. J., Fuentes, T., Lopez, F., Laorden, M. L., Puig, M. M.: Presurgical Stress and Plasma Endorphin Levels, **59:** 366
Miralles, F. S., *see* Puig, M. M.
Misuraca, L.: Toil and Trouble: People Fail More Often Than Equipment, **57:** 430
Mitchell, M. M., *see* Oden, R.
Mitchell, R. L., *see* Bagshaw, R. J.
Miyao, J., *see* Goromaru, T.
Miyawaki, T., *see* Goromaru, T.
Modell, J. H., *see* Bergquist, R. E.; *also see* Murray, I. P.
Moffett, J., *see* Rolbin, S. H.
Moffitt, E., *see* Sethna, D.
Mogensen, T., *see* Hasselstrøm, L. J.
Moir, C. L., McMorland, G. H.: Potential Interactions between Cimetidine and Amide Local Anesthetics in Obstetrics, **60:** 507
Moir, D. D.: Cimetidine, Antacids, and Pulmonary Aspiration, **59:** 81
Moir, D. D.: Reply to: Cimetidine—Unresolved Issues, **60:** 391
Mok, M. S., Tsai, S. K.: More Experience with Intrathecal Morphine for Obstetric Analgesia, **55:** 481
Moldenhauer, C. C., *see* Christian, C. M., II
Moleman, P., *see* van Poorten, J. F.
Molitch, M. E.: Management of Medical Problems in Surgical Patients, **57:** 559
Molteni, A., *see* Fragen, R. J.
Momil, S., *see* Artru, A. A.
Monk, S. J., *see* Sharer, N. M.
Montague, D., *see* Savarese, J. J.
Montembault, C., *see* Clergue, F.
Mookerjee, A., *see* Waud, B. E.
Moon, G. J.: Chest Pain of Esophageal Origin during Spinal Anesthesia, **53:** 510
Moon, G. J., Kim, J. G., Cookinham, F. T.: Intranasal Nitroglycerin (NTG) during Infrarenal Aortic Cross-Clamp, **55:** 191
Moore, D. C.: Administer Oxygen First in the Treatment of Local Anesthetic-induced Convulsions, **53:** 346
Moore, D. C.: Bupivacaine Toxicity and Bier Block: The Drug, the Technique, or the Anesthetist, **61:** 782
Moore, D. C.: Monitoring Respirations with a Gauze Thread: An Ancient and Outdated Technique, **61:** 623
Moore, D. C.: Sixteen-gauge Tuohy Needles Should Be Abandoned, **53:** 269
Moore, D. C., Batra, M. S.: Reply, **61:** 345
Moore, D. C., Batra, M. S.: Reply to: Further Considerations Regarding the Components of an Effective Test Dose Prior to Epidural Block, **57:** 140

Moore, D. C., Batra, M. S.: The Components of an Effective Test Dose Prior to Epidural Block, **55:** 693

Moore, D. C., Bush, W. H., Burnett, L. L.: An Improved Technique for Celiac Plexus Block May Be More Theoretical Than Real, **57:** 347

Moore, D. C., Crawford, R. D., Scurlock, J. E.: Severe Hypoxia and Acidosis Following Local Anesthetic-induced Convulsions, **53:** 259

Moore, D. C., Thompson, G. E., Crawford, R. D.: Long-acting Local Anesthetic Drugs and Convulsions with Hypoxia and Acidosis, **56:** 230

Moore, D. C., *see* Batra, M. S.; *also see* Fitzgibbons, D. C.

Moore, D. C. : Precipitation of Local Anesthetic Drugs in Cerebrospinal Fluid, **57:** 134

Moore, D. H., II, *see* Wyrobek, A. J.

Moore, R. A., Forsythe, M. J., Niguidula, F. N., McNicholas, K. W., Clark, D. L.: Anesthesia for the Patient with Pulmonary Lobar Torsion, **57:** 129

Moore, R. A., Mc Nicholas, K., Gallagher, J. D., Niguidula, F.: Migration of Pediatric Pulmonary Artery Catheters, **58:** 102

Moore, W. P., *see* Elliott, M. B.

Moorthy, S. S., *see* Bromley, J. J.; *also see* Mahomed, Y.; Wilson, S. W.

Moossy, J., *see* Gisvold, S. E.

Morales, A., *see* Milne, B.

Moravec, M., *see* Chapin, J. W.

Morel, D., *see* Forster, A.; *also see* Gamulin, Z.

Morgan, C. W., *see* Hägerdal, M.

Morgan, D. J., Blackman, G. L., Paull, J. D., Wolf, L. J.: Pharmacokinetics and Plasma Binding of Thiopental. I: Studies in Surgical Patients, **54:** 468

Morgan, D. J., Blackman, G. L., Paull, J. D., Wolf, L. J.: Pharmacokinetics and Plasma Binding of Thiopental. II: Studies at Cesarean Section, **54:** 474

Morgan, D. J., *see* Mertens, Ph.

Morgan, L., *see* Roy, R. C.

Morgan, P. L.: A Modified Laryngoscope Blade for Rat Intubation, **57:** 431

Morgan, P. L., *see* Kissin, I.

Morgan, S. F., Furman, E. B., Dikmen, S.: Psychological Effects of General Anesthesia on Five- to Eight-year-old Children, **55:** 386

Mori, K., *see* Seo, N.

Morio, M., Fujii, K., Takiyama, R., Chikasue, F., Kikuchi, H., Ribarić, L.: Quantitative Analysis of Trifluoroacetate in the Urine and Blood by Isotachophoresis, **53:** 56

Morishima, H. O., Covino, B. G.: Toxicity and Distribution of Lidocaine in Nonasphyxiated and Asphyxiated Baboon Fetuses, **54:** 182

Morishima, H. O., Pedersen, H., Finster, M., Feldman, H. S., Covino, B. G.: Etidocaine Toxicity in Sheep, **58:** 342

Morishima, H. O., Pedersen, H., Finster, M., Sakuma, K., Bruce, S. L., Gutsche, B. B., Stark, P. I., Covino, B. G.: Toxicity of Lidocaine in Adult, Newborn, and Fetal Sheep, **55:** 57

Morison, D. H.: Further Considerations Regarding the Components of an Effective Test Dose Prior to Epidural Block, **57:** 140

Morison, D. H.: Placental Transfer of Dantrolene, **59:** 265

Morison, D. H., *see* Dunn, G. L.

Morley, T. S., Cullen, D. J., Silverstein, P. R.: Use of Pulmonary-artery Catheter Not Justified, **52:** 96

Morray, J., Todd, S.: Continuous Flush Systems for Vascular Pressure Monitoring in Infants, **58:** 187

Morris, A. L.: Guidelines for Randomized Trials to Determine Incidence of Perioperative myocardial Infarction, **61:** 213

Morris, M. D., *see* Kroll, D. A.

Morris, P. J., Heuser, D., McDowall, D. G., Hashiba, M., Myers, D.: Cerebral Cortical Extracellular Fluid H^+ and K^+ Activities during Hypotension in Cats, **59:** 10

Morris, R. B., Cahalan, M. K., Miller, R. D., Wilkinson, P. L., Quasha, A. L., Robinson, S. L.: Cardiovascular Effects of Vecuronium and Pancuronium in Coronary Artery Bypass Grafting, **58:** 438

Morris, R. B., Cronnelly, R., Miller, R. D., Stanski, D. R., Fahey, M. R.: Pharmacokinetics of Edrophonium and Neostigmine When Antagonizing *d*-Tubocurarine Neuromuscular Blockade in Man, **54:** 399

Morris, R. B., *see* Cronnelly, R.; *also see* Fahey, M. R.

Mortelmans, K., *see* Baden, J. M.

Mortimer, J. T., *see* Yodlowski, E. H.

Mortola, J. P., *see* Fisher, J. T.

Morton, M., Duke, P. C., Ong, B.: Baroreflex Control of Heart Rate in Man Awake and during Enflurane and Enflurane–Nitrous Oxide Anesthesia, **52:** 221

Moscicki, J., *see* Gal, T. J.; *also see* Lescanic, M. L.

Moscicki, J. C., *see* Raja, S. N.

Moshal, M. G., *see* Brock-Utne, J. G.

Moss, J., Rosow, C. E.: Histamine Release by Narcotics and Muscle Relaxants in Humans, **59:** 330

Moss, J., Rosow, C. E., Savarese, J. J., Philbin, D. M., Kniffen, K. J.: Role of Histamine in the Hypotensive Action of *d*-Tubocurarine in Humans, **55:** 19

Moss, J., *see* Liu, L. M. P.; *also see* Philbin, D. M.; Rosow, C. E.; Savarese, J. J.

Moss, K. S., *see* Rao, N. L.

Moss, P., *see* Stonham, J.

Mostert, J. W., *see* Beukes, H. v. Z.

Mote, P. S., Pruett, J. K., Gramling, Z. W.: Halothane, Enflurane and Myocardial Contractility, **58:** 53

Mote, P. S., *see* Mathews, W. S.

Motin, J., *see* Annat, G.; *also see* Lomessy, A.

Movilia, P., *see* Restelli, L.

Moy, P., *see* Vredevoe, L. A.

Moyer, T. P., *see* Nugent, M.

Moyer, T. P., *see* Sill, J. C.

Moyers, J., *see* Feeley, T. W.

Moyers, J. R., *see* Horrigan, R. W.

Moynihan, P.: Modification of Pediatric Laryngoscope, **56:** 330

Muir, J., *see* Peters, K. R.

Muir, J. J., Endres, S. M., Offord, K., van Heerden, J. A., Tinker, J. H.: Glucose Management in Patients Undergoing Operation for Insulinoma Removal, **59:** 371

Muldoon, S. M., *see* Doblar, D. D.; *also see* Blanck, T. J. J.; Hyatt, M.

Muller, B. J., *see* Gallagher, M. J.

Mullin, V.: Brachial Plexus Block with Phenol for Painful Arm Associated with Pancoast's Syndrome, **53:** 431

Mulroy, M. F., *see* Batra, M. S.; *also see* Cory, P. C.; McMahon, D. J.; Wedel, D. J.

Muneyuki, M., Konishi, K.: Reply to: Mean Airway Pressure and Hemodynamic Effects, **60:** 75

Muneyuki, M., Konishi, K., Horiguchi, R., Tsujimoto, S., Saito, M., Sakakura, S., Konishi, A.: Alternating Lung Ventilation in Dogs, **58:** 353

Munshi, C., Rouman, W. C.: Risk of Air Embolism during Catheter Placement, **58:** 206

Munson, E. S., Stevens, D. S., Redfern, R. E.: Endotracheal Tube Obstruction by Nitrous Oxide, **52:** 275

Munson, E. S., *see* Berger, J. J.; *also see* Chapin, J. C.; Paulus, D. A.; Schick, L. M.

Murad, F., *see* Pearl, R. G.

Muravchick, S.: Deep Body Thermometry during General Anesthesia, **58:** 271

Muravchick, S.: Effect of Age and Premedication on Thiopental Sleep Dose, **61:** 333

Muravchick, S., Burkett, L., Gold, M. I.: Succinylcholine-induced Fasciculations and Intragastric Pressure during Induction of Anesthesia, **55:** 180

Muravchick, S., *see* Andritsch, R. F.; *also see* Collier, C. B.; deLisser, E. A.; Gold, M. I.

Murphy, A. L., Conlay, L., Ryan, J. F., Roberts, J. T.: Malignant Hyperthermia during a Prolonged Anesthetic for Reattachment of a Limb, **60:** 149

Murphy, M. R., Hug, C. C., Jr.: Pharmacokinetics of Intravenous Morphine in Patients Anesthetized with Enflurane–Nitrous Oxide, **54:** 187

Murphy, M. R., Hug, C. C., Jr.: Reply to: Humaneness of Anesthetic Induction Technique Questioned, **59:** 260

Murphy, M. R., Hug, C. C., Jr.: The Anesthetic Potency of Fentanyl in Terms of Its Reduction of Enflurane MAC, **57:** 485

Murphy, M. R., Hug, C. C., Jr.: The Enflurane Sparing Effect of Morphine, Butorphanol, and Nalbuphine, **57:** 489

Murphy, M. R., Hug, C. C., Jr., McClain, D. A.: Dose-independent Pharmacokinetics of Fentanyl, **59:** 537

Murphy, M. R., *see* Hug, C. C., Jr.
Murray, I. P., Modell, J. H.: Early Detection of Endotracheal Tube Accidents by Monitoring Carbon Dioxide Concentration in Respiratory Gas, **59:** 344
Mushin, W. W., Rendell-Baker, L., Thompson, P. W., Mapelson, W. W.: Automatic Ventilation of the Lungs, 3rd Edition, **54:** 175
Mustafa, K., Milliken, R. A.: A Simple Device for the Identification of the Epidural Space, **57:** 330
Mustafa, K., Milliken, R. A., Bizzarri, D. V.: Advantage of Prone Position Approach to Lumbar Epidural Space, **58:** 464
Mustajoki, P., Heinonen, J.: General Anesthesia in "Inducible" Porphyrias, **53:** 15
Mutch, A. C., *see* Thomson, I. R.
Myers, B. D., *see* Hilberman, M.; *also see* Maseda, J.
Myers, D., *see* Morris, P. J.
Myers, J. A., *see* Coyle, D. E.
Myklebust, J. B., *see* Cusick, J. F.; *also see* Frumin, M. J.
Mylrea, K. C., Hameroff, S. R., Calkins, J. M., Blitt, C. D., Humphrey, L. L.: Evaluation of Peripheral Nerve Stimulators and Relationship to Possible Errors in Assessing Neuromuscular Blockade, **60:** 464

N

Nadel, J. A., *see* deKock, M. A.
Nagai, H., *see* Sumikawa, K.
Nagashima, H. (ed.), *see* Radnay, P. A. (ed.)
Nagel, A. F., Weeks, D. B.: Precordial Electrocardiographic Lead (V_5) Capability by Simple Modification of EKG Monitor Leads, **53:** 179
Nagle, D. M., *see* Waller, J. L.
Nahrwold, M. L., *see* du Boulay, P. M. H.; *also see* Hill, A. B.; Jones, R. M.; Knight, P. R.; Strout, C. D.
Naidu, R., Steg, N. L., MacEwen, G. D.: Hyperkalemia: Benign, Hereditary, Autosomal Dominant, **56:** 226
Naito, H., *see* Dohi, S.
Nakashima-Tanaka, E., *see* Gamo, S.
Namiki, A., Collins, J. G., Kitahata, L. M., Kikuchi, H., Homma, E., Thalhammer, J. G.: Effects of Halothane on Spinal Neuronal Responses to Graded Noxious Heat Stimulation in the Cat, **53:** 475
Nargozian, C. D., *see* Hard, C.
Nari, S.: Computers in Critical Care and Pulmonary Medicine-Volume III, **61:** 486
Narla, R., *see* Berkebile, P. E.
Nash, C. L., Jr., *see* Grundy, B. L.
Nath, P. H., *see* Brown, D. R.
Naughton, K. V. H., *see* Rockoff, M. A.
Naulty, J. S.: Reply to: Technique is the Critical Variable, **58:** 588
Naulty, J. S., Meisel, L. B., Datta, S., Ostheimer, G. W.: An Embolism during Radical Hysterectomy, **57:** 420
Naulty, J. S., Ostheimer, G. W., Datta, S., Knapp, R., Weiss, J. B.: Incidence of Venous Air Embolism during Epidural Catheter Insertion, **57:** 410
Nedergaard, O. A., *see* Stokke, D. B.
Neff, W. B., *see* Garlington, L.
Neidzwski, J. T., *see* Wald, A.
Nelson, D. A., *see* Brzustowicz, R. M.
Nelson, P. B., *see* Grundy, B. L.
Nelson, S. H., Steinsland, O. S.: *d*-Tubocurarine as a Dopaminergic Antagonist in the Rabbit Ear Artery, **59:** 98
Nelson, S. R., Howard, R. B., Cross, R. S., Samson, F.: Ketamine-induced Changes in Regional Glucose Utilization in the Rat Brain, **52:** 330
Nelson, S. R., *see* Oguchi, K.
Nelson, T. E., *see* Flewellen, E. H.
Nemoto, E. M., *see* MacMurdo, S. D.
Netter, F. H.: Respiratory System, **52:** 459
Neuman, G. G., Weingarten, A. E., Abramowitz, R. M., Kushins, L. G., Abramson, A. L., Ladner, W.: The Anesthetic Management of the Patient with an Anterior Mediastinal Mass, **60:** 144
Neuman, G. G., *see* Wollman, S. B.
Neumark, J., Feichtinger, W., Gassner, A.: Epidural Block in Obstetrics Followed by Aseptic Meningoencephalitis, **52:** 518
Nevelsteen, M., *see* d'Hollander, A. A.
Neville, W. E.: Intensive Care of the Surgical Cardiopulmonary Patient, Second Edition, **60:** 624
New, W., Jr., *see* Yelderman, M.
Newberg, L., *see* Steen, P. A.
Newberg, L. A., Michenfelder, J. D.: Cerebral Protection by Isoflurane during Hypoxemia or Ischemia, **59:** 29
Newberg, L. A., Milde, J. H., Michenfelder, J. D.: Systemic and Cerebral Effects of Isoflurane-induced Hypotension in Dogs, **60:** 541
Newberg, L. A., Milde, J. H., Michenfelder, J. D.: The Cerebral Metabolic Effects of Isoflurane at and above Concentrations that Suppress Cortical Electrical Activity, **59:** 23
Newbower, R. S., *see* Cooper, J. B.
Newbower, R. S. (ed.), *see* Gravenstein, J. S. (ed.)
Newburg, L. A. (ed.), *see* Lebowitz, P. W. (ed.)
Newfield, P., *see* Gencarelli, P. J.; *also see* Ham, J.
Newland, M., *see* Lips, F. J.
Ngai, S. H., Finck, A. D.: Prolonged Exposure to Nitrous Oxide Decreases Opiate Receptor Density in Rat Brainstem, **57:** 26
Ngai, S. H., *see* Finck, A. D.; *also see* Yang, J. C.
Ngeow, Y. K.: Management of Tracheomegaly, **57:** 248
Ngeow, Y. K., Kashima, H.: More about Protection of Endotracheal Tubes during Laser Microlaryngeal Surgery, **55:** 714
Ngeow, Y. K., *see* Toung, T.
Nguyen, N., *see* Durant, N. N.
Nguyen-Gruenke, L., *see* Cronnelly, R.
Nicholas, A. D. G.: The Optimal Test Dose for Epidural Anesthesia, **60:** 79
Nicholls, M. G., *see* Knight, P. R.
Nicolas, F. M., *see* Villers, D.
Nicolson, S. C., *see* Betts, E. K.
Nicosia, F., Lombardi, M.: Cranial Electrical Stimulation Used during Anesthesia, **59:** 264
Niederlehner, J. R., DiFazio, C. A., Foster, J., Westfall, T. C.: Cerebral Monoamines and Lidocaine Toxicity in Rats, **56:** 184
Nielsen, A., *see* Viby-Mogensen, J.
Nielsen, C. H., *see* Bromage, P. R.
Nigrovic, V., Koechel, D. A.: Atracurium—Additional Information Needed, **60:** 606
Niguidula, F. N., *see* Moore, R. A.
Nikki, Pertti, *see* MacMurdo, S. D.
Nimmo, W. S.: Gastric Emptying in Labor, **53:** 263
Nishikawa, T., Dohi, S.: Slowing of Heart Rate during Cardiac Output Measurement by Thermodilution, **57:** 538
Nishikawa, T., *see* Dohi, S.
Nishino, T., Shirahata, M., Yonezawa, T., Honda, Y.: Comparison of Changes in the Hypoglossal and the Phrenic Nerve Activity in Response to Increasing Depth of Anesthesia in Cats, **60:** 19
Nishino, T., Yonezawa, T., Honda, Y.: Different Laryngeal Responses during Respiratory Arrest Produced by Hypoxia Withdrawal, Thiopentone, Ketamine, and Lidocaine in Cats, **56:** 280
Nishino, T., Yonezawa, T., Honda, Y.: Modification of Laryngospasm in Response to Changes in Pa_{CO_2} and Pa_{O_2} in the Cat, **55:** 286
Nishitateno, K., *see* Matteo, R. S.
Nitenberg, A., *see* Marty, J.
Nivoche, Y., *see* Duvaldestin, P.
Nixon, G. W., *see* Roberts, L. S.
Noback, C. R., Tinker, J. H.: Hypothermia after Cardiopulmonary Bypass in Man: Amelioration by Nitroprusside-induced Vasodilation during Rewarming, **53:** 277
Noble, W. H., Devitt, J. H., Byrick, R. J.: Reply to: Pulmonary Artery Catheters in Eisenmenger's Syndrome , **58:** 589
Noble, W. H., Kay, J. C.: Lung Water Increases with Fluid Administration during CPPV after Pulmonary Microembolization, **61:** 703
Noble, W. H., *see* Devitt, J. H.; *also see* Fisher, J.
Noel, T. A., II,: Pulmonary Artery Catheter Sheath Malfunction with Sternotomy, **61:** 633
Noonan, D., *see* Hill, A. B.
Nordberg, G., Hedner, T., Mellstrand, T., Dahlström, B.: Pharmacokinetic Aspects of Intrathecal Morphine Analgesia, **60:** 448
Nordberg, G., Hedner, T., Mellstrand, T., Dahlström, B.: Pharmacokinetics of Epidural Morphine, **58:** 545

Nordenstrom, J., *see* Askanazi, J.
Nordström, L., *see* Fletcher, R.
Norfleet, E. A., *see* Kates, R. A.; *also see* Porter, E. J.; Watson, C. B.
Norman, J.: More about the Pharmacokinetics of Vecuronium and Pancuronium, **60:** 509
Norman, J., *see* Nott, M. R.
Norman, P., *see* Gibbs, C. P.
Normandin, N., *see* Perreault, L.
North, R. B., *see* McPherson, R. W.
Northrop, P., *see* Hill, A. B.
Norton, M. L., *see* Bolder, P. M.; *also see* Kroll, D. A.
Noseworthy, T., *see* McTaggart, R. A.
Nott, M. R., Norman, J.: Rebreathing and the Bain Circuit, **58:** 392
Noueihed, R., *see* Abboud, T. K.
Noueihid, R., *see* Baraka, A.
Novoselac, M., *see* Mihic, D.
Noy, G. A., *see* Elliott, M. J.
Nugent, M., Artru, A. A., Michenfelder, J. D.: Cerebral Metabolic, Vascular and Protective Effects of Midazolam Maleate: Comparison to Diazepam, **56:** 172
Nugent, M., Tinker, J. H., Moyer, T. P.: Verapamil Worsens Rate of Development and Hemodynamic Effects of Acute Hyperkalemia in Halothane-anesthetized Dogs: Effects of Calcium Therapy, **60:** 435
Nugent, M., *see* Artru, A. A.; *also see* Cucchiara, R. F.; Legler, D.; Sill, J. C.
Nunn, J. F.: Anesthesia and the Lung, **52:** 107
Nunn, J. F.: Applied Respiratory Physiology, **52:** 531
Nunn, J. F.: Evidence for *In vivo* Biotransformation of Nitrous Oxide, **54:** 527
Nunn, J. F., Ó'Moráin: Nitrous Oxide Decreases Motility of Human Neutrophils *In Vitro*, **56:** 45
Nunn, J. F., *see* Sharer, N. M.; *also see* Skacel, P. O.
Nunn, J. F. (ed.), *see* Gray, T. C. (ed.)

O

Obara, S., *see* Yasuda, I.
O'Brien, J. C., *see* Hannenberg, A. A.
Ochs, H. R., *see* Greenblatt, D. J.
O'Connor, B., *see* Koblin, D. D.
O'Connor, R. D., *see* Dueck, R.
Oda, M., *see* Uehira, A.
Odell, C. A., *see* Lichtor, J. L.
Oden, R., Mitchell, M. M., Benumof, J. L.: Detection of End-exhalation Period by Airway Thermistor, **58:** 467
Oei-Lim, V., *see* Bovill, J. G.
Offord, K., *see* Muir, J. J.
Ogaki, M., *see* Gamo, S.
Ogden, L. H.: Regional Anesthesia by Nurse Anesthetists, **53:** 82
Oguchi, K., Arakawa, K., Nelson, S. R., Samson, F.: The Influence of Droperidol, Diazepam, and Physostigmine on Ketamine-induced Behavior and Brain Regional Glucose Utilization in Rat, **57:** 353
Oh, T. H.: Formulas for Calculating Fluid Maintenance Requirements, **53:** 351
Oh, T. H., *see* Abramowitz, M. D.; *also see* Hannallah, R. S.
Ohashi, N., *see* Sawada, Y.
Ohlweiler, D., *see* Ford, D. J.; *also see* Raj, P. P.
Okamoto, K., *see* Ishikawa, T.
O'Keeffe, C., *see* Fisher, D. M.
Okumura, F., *see* Furuya, H.
Olaso, M. J., *see* Miralles, F. S.; *also see* Puig, M. M.
Olewine, S. K., *see* Kapur, P. A.
Olievier, C. N., *see* Berkenbosch, A.
Olson, W. A., *see* Hug, C. C., Jr.
Ó'Moráin, *see* Nunn, J. F.
O'Neil, J. R., *see* Hong, K.; *also see* Linde, H. W.
O'Neill, J. E., Giffin, J. P., Cottrell, J. E.: Pharyngeal and Esophageal Perforation Following Endotracheal Intubation, **60:** 487
Ong, B., *see* Morton, M.
Oppenheimer, L., *see* Prewitt, R. M.
Op'Tholt, T., *see* Venus, B.
Ørding, H., *see* Cullen, D. J.; *also see* Viby-Mogensen, J.
Orig, T., *see* Abouleish, E.
Orkin, F. K., Cooperman, L. H.: Complications in Anesthesiology, **61:** 232
Orkin, F. K., *see* Leventhal, S. R.; *also see* Lieberman, R. W.
Orkin, F. K. (ed.), *see* Hirsh, R. A. (ed.)
Orlick, A. E., *see* Klocke, F. J.
Orr, D. L., *see* Loeser, E. A.
Orr, I. A., *see* Bahar, M.
Osborn, J. L., *see* Seagard, J. L.
Oshibuchi, T., *see* Maekawa, T.
Oshima, E., *see* Seo, N.
Oshita, S., Sari, A., Fujii, S., Yonei, A.: Prolonged Neuromuscular Blockade Following Succinylcholine in a Patient Homozygous for the Silent Gene, **59:** 71
Ostheimer, G. W., *see* Datta, S.; *also see* Hodgkinson, R.; Naulty, J. S.
O'Sullivan, H., Jennings, F., McCann, S. R., Ward, K., Scott, J. M., Weir, D. G.: Reply to: Failure to Correct Nitrous Oxide Toxicity with Folinic Acid, **57:** 558
O'Sullivan, H., Jennings, F., Ward, K., McCann, S., Scott, J. M., Weir, D. G.: Human Bone Marrow Biochemical Function and Megaloblastic Hematopoiesis after Nitrous Oxide Anesthesia, **55:** 645
O'Sullivan, P. T., *see* Travis, K. W.
Ott, V. V., Pollack, M. M., Riddick, L., Reisch, R. F., Epstein, B. S.: Delayed Awakening from Anesthesia and Child Abuse, **58:** 178
Otteni, J. C., Pottecher, T., Bronner, G., Flesch, H., Diebolt, J. R.: Prolongation of the Q-T Interval and Sudden Cardiac Arrest Following Right Radical Neck Dissection, **59:** 358
Otto, A., *see* Meyers, E. F.
Otto, C. W., Quan, S. F., Calkins, J. M., Waterson, C. K., Hameroff, S. R.: Mean Airway Pressure and Hemodynamic Effects, **60:** 74
Otto, C. W., *see* Blitt, C. D.
Ovassapian, A., Doka, J. C., Romsa, D. E.: Acromegaly—Use of Fiberoptic Laryngoscopy to Avoid Tracheostomy, **54:** 429
Ovassapian, A., Dykes, M. H. M., Yelich, S. J.: Difficult Pediatric Intubation—An Indication for the Fiberoptic Bronchoscope, **56:** 412
Ovassapian, A., Joshi, C. W., Brunner, E. A.: Visual Disturbances: An Unusual Symptom of Transurethral Prostatic Resection Reaction, **57:** 332
Ovassapian, A., Land, P., Schafer, M. F., Cerullo, L., Zalkind, M. S.: Anesthetics for Surgery of Severe Flexion Deformity of Cervical Spine, **58:** 370
Oviatt, K., *see* Dyck, P. J.
Ovnat, A., *see* Greenberg, L.
Owen, E. L., *see* Land, P. C.
Oxman, M. N.: Hepatitis B Vaccination of High-risk Hospital Personnel, **60:** 1
Oyer, P. E., *see* Hilberman, M.
Ozaki, G. T., *see* Andersen, H. W.
Ozanne, G. M., Young, W. G., Mazzei, W. J., Severinghaus, J. W.: Multipatient Anesthetic Mass Spectrometry: Rapid Analysis of Data Stored in Long Catheters, **55:** 62
Ozanne, G. M., Zinn, S. E., Fairley, H. B.: Measurement of Functional Residual Capacity during Mechanical Ventilation by Simultaneous Exchange of Two Insoluble Gases, **54:** 413
Ozanne, G. M., *see* Katz, J. A.; *also see* Zinn, S. E.

P

Paasuke, R. T., *see* Brownell, A. K. W.
Pace, N., *see* de Lange, S.
Pace, N. L.: A Reconsideration of the Merits of the Cardiac Risk Index, **60:** 607
Pace, N. L., *see* Garibaldi, R. A.; *also see* Loeser, E. A.; Stanley, T. H.
Pageau, M. G., *see* Coombs, D. W.
Pairolero, P. C., *see* Quasha, A. L.
Palas, T. A. R.: The Risk of Endotracheal Intubation for Carbon Dioxide Laser Microsurgery of the Larynx, **55:** 718
Palayiwa, E., Evans, J. M.: Some Practical Considerations in the Use of the Engstrom EMMA Analyzer, **61:** 112
Palermo, L., *see* Schwartz, A. J.
Pallares, V. S., *see* Szeinfeld, M.; *also see* Teeple, E.
Pallot, D. J.: Control of Respiration, **61:** 233
Palmisano, B. W., Fisher, D. M., Willis, M., Gregory, G. A., Ebert, P. A.: The effect of Paralysis on Oxygen Consumption in Normoxic Children after Cardiac Surgery, **61:** 518
Palumbo, P. J.: Blood Glucose Control during Surgery, **55:** 94
Palumbo, P. J., *see* Roizen, M. F.

Pandele, G., Chaux, F., Salvadori, C., Farinotti, M., Duvaldestin, P.: Thiopental Pharmacokinetics in Patients with Cirrhosis, **59:** 123
Pandit, S. K., *see* Kothary, S. P.
Pandit, U. A., *see* Kothary, S. P.
Pantuck, C. B., *see* Pantuck, E. J.
Pantuck, E. J., Pantuck, C. B., Weissman, C., Askanazi, J., Conney, A. H.: Effects of Parenteral Nutritional Regimens on Oxidative Drug Metabolism, **60:** 534
Paradise, R. R., *see* Gingerich, R.
Parasher, C., *see* Arndt, J. O.
Parcella, P., *see* Glasser, S. A.
Park, W. Y., Hagins, F. M., Rivat, E. L., Macnamara, T. E.: Age and Epidural Dose Response in Adult Men, **56:** 318
Park, W. Y., Poon, K. C., Massengale, M. D., Macnamara, T. E.: Direction of the Needle Bevel and Epidural Anesthetic Spread, **57:** 327
Park, Y. R., Eastwood, D. W.: Dextrose Affects Gravitational Spread of Epidural Anesthesia, **52:** 439
Parker, E. O., III: Airway Management in the Parturient, **60:** 167
Parker, E. O., III: Electrosurgical Burn at the Site of an Esophageal Temperature Probe, **61:** 93
Parker, J., *see* Gardner, R. M.
Parks, C. M., *see* Tranquilli, W. J.
Parmentier, J. L., Bennett, P. B.: Hydrostatic Pressure Does Not Antagonize Halothane Effects on Single Neurons of *Aplysia californica*, **53:** 9
Parmley, C. L., *see* Brown, D. L.
Parris, W. C. V.: Reply to: Management of Tracheomegaly, **57:** 249
Parris, W. C. V., Johnson, A. C.: Tracheomegaly, **56:** 141
Pashayan, A. G., *see* Pyles, S. T.
Patel, A., Milliken, R. A.: Costs of Delivery of Anesthetic Gases Re-examined. I, **55:** 710
Patel, C., Cotten, S., Turndorf, H.: Partial Severance of an Oronasotracheal Tube during a le Fort I Procedure, **53:** 357
Patel, K. D., *see* Dalal, F. Y.; *also see* Gelman, S.
Patel, K. P., *see* Capan, L. M.
Patel, R.: Systems for Transtracheal Ventilation, **59:** 165
Patel, R. I., Thein, R. M. H., Epstein, B. S.: Costoclavicular Syndrome and the Sitting Position during Anesthesia, **53:** 341
Patel, R. I., *see* Cassady, J. F.
Patel, S., *see* Berman, J.
Patil, V., Stehling, L., Zauder, H.: Fiberoptic Endoscopy in Anesthesia, **60:** 623
Patil, V., Stehling, L. C., Zauder, H. L., Koch, J. P.: Mechanical Aids for Fiberoptic Endoscopy, **57:** 69
Patil, V. U., Stehling, L. C., Zauder, H. L.: An Adjustable Laryngoscope Handle for Difficult Intubations, **60:** 609
Patil, V. U., Stehling, L. C., Zauder, H. L.: Another Use for the Fiberoptic Bronchoscope, **55:** 484
Paul, W. L., *see* Paulus, D. A.
Paulissian, R., *see* Ivankovich, A. D.
Paull, J. D., *see* Mertens, Ph.; *also see* Morgan, D. J.
Paulus, D. A., Paul, W. L., Munson, E. S.: Neurologic Depression after Intrathecal Morphine, **54:** 517
Paulus, D. A., *see* Brooks, T. D.
Pavlin, E. G., *see* Glinsman, D.
Pavlov, I., *see* Teeple, E.
Peach, M. J., *see* Miller, E. D., Jr.; *also see* Woodside, J. R., Jr.
Peacock, J. E., *see* Johnston, W. E.
Pearce, A. C., Jones, R. M.: Smoking and Anesthesia: Preoperative Abstinence and Perioperative Morbidity, **61:** 576
Pearl, R. G., Rosenthal, M. H., Ashton, J. P. A.: Nitroglycerin and Sodium Nitroprusside in Oleic Acid-induced Pulmonary Hypertension, **58:** 514
Pearl, R. G., Rosenthal, M. H., Murad, F., Ashton, J. P. A.: Aminophylline Potentiates Sodium Nitroprusside-induced Hypotension in the Dog, **61:** 712
Pearson, J., Reves, J. G.: Unusual Cause of Hypotension after Coronary Artery Bypass Grafting: Idiopathic Hypertrophic Subaortic Stenosis, **60:** 592
Pedemonte, M. S., *see* Shah, J.
Pedersen, H., *see* Morishima, H. O.
Peetz, S., *see* Hirshman, C. A.
Peiser, J., *see* Greenberg, L.
Pelligrino, D. A., Miletich, D. J., Hoffman, W. E., Albrecht, R. F.: Nitrous Oxide Markedly Increases Cerebral Cortical Metabolic Rate and Blood Flow in the Goat, **60:** 405
Peltola, K., *see* Salmenperä, M.
Pelton, D. A., *see* Steward, D. J.
Pepple, J.: Epinephrine—Halothane Interaction in Children *versus* Adults, **60:** 76
Perez-Chada, D., *see* Gardaz, J. P.
Perkash, I., *see* Schonwald, G.
Perkins, N. A. K., Cail, W. S., Bedford, R. F., Elinger, J. H., Buschi, A. J.: Internal Jugular Vein Function after Swan–Ganz® Catheterization, **61:** 456
Perkins-Pearson, N. A. K., Marshall, W. K., Bedford, R. F.: Atrial Pressures in the Seated Position: Implication for Paradoxical Air Embolism, **57:** 493
Perreault, L., Normandin, N., Plamondon, L., Blain, R., Rousseau, P., Girard, M., Forget, G.: Tympanic Membrane Rupture after Anesthesia with Nitrous Oxide, **57:** 325
Perrier, D., *see* Jung, D.
Perriss, B. W.: Intrathecal Morphine, **53:** 82
Personne, C., *see* Vourc'h, G.
Peters, J., *see* Hirshman, C. A.; *also see* Mikat, M.
Peters, K. R., Chapin, J. W.: Allen's Test—Positive or Negative, **53:** 85
Peters, K. R., Muir, J., Wingard, D. W.: Intraocular Pressure after Transurethral Prostatic Surgery, **55:** 327
Petersen, R. C., *see* Korttila, K.
Peterson, G. N., *see* Rooke, G. A.
Peterson, H. B., Rubin, G. L., Tyler, C. W., Jr.: The Need for Anesthesiologists Trained in Epidemiology, **53:** 263
Petkau, A. J., *see* Coté, C. J.
Peto, R., *see* Lowenstein, E.
Petty, C.: ASA Preceptorship: Success in a Rural Setting, **60:** 78
Petty, C.: Research Techniques in the Rat, **58:** 111
Petty, T. L.: Intensive and Rehabilitative Respiratory Care, **58:** 304
Petty, T. L.: Intensive and Rehabilitative Respiratory Care, 3rd Edition, **58:** 304
Pfisterer, M., *see* Skarvan, K.
Pflug, A. E., Halter, J. B.: Effect of Spinal Anesthesia on Adrenergic Tone and the Neuroendocrine Responses to Surgical Stress in Humans, **55:** 120
Pham, A. N., *see* Azar, I.
Philbin, D. M., Moss, J., Akins, C. W., Rosow, C. E., Kono, K., Schneider, R. C., VerLee, T. R., Savarese, J. J.: The Use of H_1 and H_2 Histamine Antagonists with Morphine Anesthesia: A Double-blind Study, **55:** 292
Philbin, D. M., Moss, J., Rosow, C. E., Savarese, J. J.: Reply to: Relevance of Plasma Histamine Levels to Hypotension, **57:** 425
Philbin, D. M., *see* Lowenstein, E.; *also see* Moss, J.; Rosow, C. E.
Philip, J. H., *see* Cooper, J. B.; *also see* Jumper, A.
Philipson, E. H., *see* Kuhnert, B. R.
Phillips, J., *see* Graybar, G.; *also see* Weinberg, S.
Phythyon, J. M., *see* Berman, M. L.; *also see* Uetrecht, J.; Wood, M.
Pickar, D., *see* Dubois, M.
Pimental, R., *see* Gross, T. L.; *also see* Kuhnert, B. R.
Pinaud, M. L. J., *see* Villers, D.
Pinaud, M. L. L., Souron, R. J.: Beta-adrenergic Effect of Pancuronium Bromide: Fact or Fallacy, **60:** 512
Pinchak, A. C., Podlipsky, H. M., Hagen, J. F.: Mechanical Aspects of Epidural Catheter Insertion—Prevention of Catheter Buckling by Means of a Needle Hub Insert, **59:** 559
Pirlo, A. F., Benumof, J. L., Trousdale, F. R.: Potentiation of Lobar Hypoxic Pulmonary Vasoconstriction by Intermittent Hypoxia in Dogs, **55:** 226
Pitts, L. H., *see* White, P. F.
Plamondon, L., *see* Perreault, L.
Plaza, J. A., *see* Cook, T. G.
Plötz, J., Braun, J.: Failure of "Self-taming" Doses of Succinylcholine to Inhibit Increases in Postoperative Serum Creatine Kinase Activity in Children, **56:** 207
Plumer, M. H., *see* Alfery, D. D.
Plummer, J. L., Beckwith, A. L. J., Bastin, F. N., Adams, J. F., Cousins, M. J., Hall,

P.: Free Radical Formation *In Vivo* and Hepatotoxicity due to Anesthesia with Halothane, **57:** 160

Podlipsky, H. M., *see* Pinchak, A. C.

Pollack, M. M., *see* Kanter, R. K.; *also see* Ott, V. V.

Pollard, B. J., Lovelock, H. A., Jones, R. M.: Fatal Pulmonary Embolism Secondary to Limb Exsanguination, **58:** 373

Poon, K. C., *see* Park, W. Y.

Poppers, P. J., *see* Lagade, M. R. G.; *also see* Maneksha, F. R.; Mark, L. C.; Skaredoff, M. N.

Porter, E. J., Norfleet, E. A., Boone, F. D., Battaglini, J., Starek, P. J. K.: Entrapment of Mitral Valve Prosthesis with a Left Atrial Catheter, **60:** 246

Pottecher, T., *see* Otteni, J. C.

Poulton, T. J., Ellingson, R. J.: Seizure Associated with Induction of Anesthesia with Isoflurane, **61:** 471

Prakash, O.: Applied Physiology in Clinical Respiratory Care, **60:** 393

Prakash, O., *see* Saxena, P. R.

Prakash, O. (ed.): Applied Physiology in Clinical Respiratory Care, **60:** 393

Prasad, Y. S., *see* Benzon, H. T.

Pratap, K. S., *see* Venus, B.

Prewitt, R. M., Ghignone, M.: Reply to: Some Questions Concerning the Effects of Hydralazine on Cardiopulmonary Function in Canine Low-pressure Pulmonary Edema, **60:** 519

Prewitt, R. M., Oppenheimer, L., Sutherland, J. B., Wood, L. D. H.: Effect of Positive End-Expiratory Pressure on Left Ventricular Mechanics in Patients with Hypoxemic Respiratory Failure, **55:** 409

Prewitt, R. M., Wood, L. D. H.: Effect of Altered Resistive Load on Left Ventricular Systolic Mechanics in Dogs, **56:** 195

Prewitt, R. M., Wood, L. D. H.: Effect of Sodium Nitroprusside on Cardiovascular Function and Pulmonary Shunt in Canine Oleic Acid Pulmonary Edema, **55:** 537

Prewitt, R. M., *see* Ghignone, M.

Priano, L. L., Solanki, D., Gloyna, D. F.: A Simple Method for Mixing Air and Oxygen, **57:** 145

Priano, L. L., Vatner, S. F.: Morphine Effects on Cardiac Output and Regional Blood Flow Distribution in Conscious Dogs, **55:** 236

Priebe, H.-J., Hedley-Whyte, J.: Positive End-Expiratory Pressure (PEEP) and Renal Function, **57:** 144

Prochaska, A. L., *see* Kuhnert, B. R.

Procopio, P. T., *see* Grundy, B. L.

Prokocimer, P., Delavault, E., Rey, F., Lefevre, P., Mazze, R. I., Desmonts, J. M.: Effects of Droperidol on Respiratory Drive in Humans, **59:** 113

Prough, D. S., Johnston, W. E.: Some Questions Concerning the Effects of Hydralazine on Cardiopulmonary Function in Canine Low-pressure Pulmonary Edema, **60:** 518

Prough, D. S., Roy, R., Bumgarner, J., Shannon, G.: Acute Pulmonary Edema in Healthy Teenagers Following Conservative Doses of Intravenous Naloxone, **60:** 485

Prough, D. S., *see* Balestrieri, F. J.; *also see* Johnston, W. E.; Lanier, W.; Royster, R. L.

Pruett, J. K., *see* Mote, P. S.

Prys-Roberts, C. (ed.): The Circulation in Anaesthesia. Applied Physiology and Pharmacology, **53:** 527

Pua, E. K., *see* Matteo, R. S.

Puig, M. M., Laorden, M. L., Miralles, F. S., Olaso, M. J.: Endorphin Levels in Cerebrospinal Fluid of Patients with Postoperative and Chronic Pain, **57:** 1

Puig, M. M., *see* Miralles, F. S.

Putman, C. F., *see* Goodman, L. R.

Pyles, S. T., Pashayan, A. G.: Anesthesia, Neuroradiology, and Metrizamide, **58:** 590

Q

Quan, S. F., Falltrick, R. T., Schlobohm, R. M.: Extubation from Ambient or Expiratory Positive Airway Pressure in Adults, **55:** 53

Quan, S. F., Kronberg, G. M., Schlobohm, R. M., Feeley, T. W., Don, H. F., Lister, G.: Changes in Venous Admixture with Alterations of Inspired Oxygen Concentration, **52:** 477

Quan, S. F., *see* Otto, C. W.; *also see* Schlobohm, R. M.

Quanjer, Ph. H., *see* Berkenbosch, A.

Quasha, A. L., Eger, E. I., II, Tinker, J. H.: Determination and Applications of MAC, **53:** 315

Quasha, A. L., Loeber, N., Feeley, T. W., Ullyot, D. J., Roizen, M. F.: Postoperative Respiratory Care: A Controlled Trial of Early and Late Extubation Following Coronary-artery Bypass Grafting, **52:** 135

Quasha, A. L., Pairolero, P. C.: Intraoperative Diagnosis of a Gastrobronchial Fistula, **52:** 175

Quasha, A. L., Tinker, J. H., Sharbrough, F. W.: Hypothermia Plus Thiopental: Prolonged Electroencephalographic Suppression, **55:** 636

Quasha, A. L., *see* Melvin, M. A.; *also see* Morris, R. B.; Sharbrough, F. W.

R

Radke, H. M., *see* Freund, P. R.

Radnay, P. A. (ed.), Nagashima, H. (ed.): Anesthetic Considerations for Pediatric Cardiac Surgery (International Anesthesiology Clinics), **54:** 175

Raichle, M. E., *see* Grubb, R. L., Jr.

Raj, P. P., Ohlweiler, D., Hitt, B. A., Denson, D. D.: Kinetics of Local Anesthetic Esters and the Effects of Adjuvant Drugs on 2-Chloroprocaine Hydrolysis, **53:** 307

Raj, P. P., *see* Ford, D. J.

Raja, S. N., Moscicki, J. C., Woodside, J. R., Jr., DiFazio, C. A.: The Effect of Acute Phencyclidine Administration on Cyclopropane Requirement (MAC) in Rats, **56:** 275

Rajagopalan, B., *see* Lowenstein, E.

Ramsey, F. M., White, P. A., Stullken, E. H., Lineberry, C. G., Allen, L. L.: Clinical Use of Atracurium during N_2O/O_2, Fentanyl, and N_2O/O_2, Enflurane Anesthesia Regimens, **61:** 328

Ramsey, F. M., *see* Ali, H. H.; *also see* Jaffe, T. B.

Ramsey, J. N.: A Patient's Description of His Spinal Anesthetic: The Need for Reassurance, **60:** 520

Ramzan, I. M.: Molecular Weight of Cation as a Determinant of Speed of Onset of Neuromuscular Blockade, **57:** 247

Ramzan, M. I., *see* Shanks, C. A.

Rannels, D. E., Roake, G. M., Watkins, C. A.: Additive Effects of Pentobarbital and Halothane to Inhibit Synthesis of Lung Proteins, **57:** 87

Ransohoff, J., *see* Hawkins, R.

Rao, A., *see* Thiagarajah, S.; *also see* Gisvold, S. E.

Rao, N. L., Moss, K. S.: Treacher-Collins Syndrome with Sleep Apnea: Anesthetic Considerations, **60:** 71

Rao, T. L. K.: Reply, **61:** 214

Rao, T. L. K., El-Etr, A. A.: Anticoagulation Following Placement of Epidural and Subarachnoid Catheters: An Evaluation of Neurologic Sequelae, **55:** 618

Rao, T. L. K., Jacobs, K. H., El-Etr, A. A.: Reinfarction Following Anesthesia in Patients with Myocardial Infarction, **59:** 499

Rao, T. L. K., Mathru, M., Salem, M. R., El-Etr, A. A.: Serum Potassium Levels Following Transfusion of Frozen Erythrocytes, **52:** 170

Rao, T. L. K., *see* Balasaraswathi, K.; *also see* Bartolone, R. S.; Gorski, D. W.; Shah, K. B.

Raphaely, R. C., *see* Harrington, J.

Rapoport, S. I., *see* Schulman, D. S.

Rasch, D. R., Holt, J., Wilson, M., Smith, R. B.: Bronchospasm Following Intraocular Injection of Acetylcholine in a Patient Taking Metoprolol, **59:** 593

Rasmussen, N. J., *see* Stokke, D. B.

Rathbun, M., *see* Dueck, R.

Rattan, V., *see* Hanowell, S. T.

Raudzens, P. A.: Intraoperative Somatosensory-Evoked Potentials, **58:** 593

Ravin, M. B., *see* Gordon, R. J.

Ravindran, R. S., *see* Stoops, C. A.; *also see* Viegas, O. J.

Ray, C., Jr., *see* Carlon, G. C.

Ray, K. F., *see* Rockoff, M. A.

Raya, J., *see* Abboud, T. K.

Rayburn, R. L., Watson, R. L.: Humidity in Children and Adults Using the Controlled Partial Rebreathing Anesthesia Method, **52:** 291

Rayburn, R. L., *see* Roberts, L. S.
Raymond, M., *see* Sethna, D.
Reader, M. S., *see* Verma, R. S.
Ready, L. B.: Hairline Cracks in Epidural Needles, **52:** 370
Ream, A., *see* Yelderman, M.
Ream, A. K., Fogdall, R. P.: Acute Cardiovascular Management, **61:** 485
Ream, A. K., Reitz, B. A., Silverberg, G.: Temperature Correction of P_{CO_2} and *p*H in Estimating Acid-Base Status: An Example of the Emperor's New Clothes, **56:** 41
Ream, A. K., *see* Kimble, K. J.
Ream, A. K. (ed.), *see* Gravenstein, J. S. (ed.)
Reddy, S. V. R., *see* Yaksh, T. L.
Redfern, R. E., *see* Munson, E. S.
Redon, D., *see* Avery, P.
Reed, S. B., *see* Rosenberg, H.
Reedy, J. C., Zwiren, G. T.: Enema-induced Hypocalcemia and Hyperphosphatemia Leading to Cardiac Arrest during Induction of Anesthesia in an Outpatient Surgery Center, **59:** 588
Rees, D. I., *see* Gaines, G. Y., III
Reese, A. L. P., *see* Kuhnert, B. R.
Regan, A. G., *see* Kalhan, S.
Regan, K. M., *see* Ford, D. J.
Regnier, B., *see* Lemaire, F.
Rehder, K., *see* Dyck, P. J.; *also see* Marsh, H. M.; Schmid, E. R.
Rehncrona, S., *see* Smith, D. S.
Reid, I. A., *see* Weiskopf, R. B.
Reinhold, P., *see* Hansen, J. E.
Reisch, R. F., *see* Ott, V. V.
Reisner, L. S.: Anaphylaxis to Intraperitoneal Dextran, **60:** 259
Reisner, L. S.: Type and Screen for Cesarean Section, **58:** 476
Reitz, B. A., *see* Ream, A. K.
Reivich, M., *see* Young, M. L.
Reiz, S., Bålfors, E., Sørensen, M. B., Ariola, S., Jr., Friedman, A., Truedsson, H.: Isoflurane—A Powerful Coronary Vasodilator in Patients with Coronary Artery Disease, **59:** 91
Rendell-Baker, L.: A Hazard Alert—Reinforced Endotracheal Tubes, **53:** 268
Rendell-Baker, L.: Standard Colors for Intravenous Cannulas, **58:** 194
Rendell-Baker, L., Klein, O. L., Charles, P.: Hazard of Separate Low and High Flow O_2 Flowmeters: An Interim Solution, **56:** 155
Rendell-Baker, L., Meyer, J. A.: Accidental Disconnection and Pulmonary Barotrauma, **58:** 286
Rendell-Baker, L., Meyer, J. A.: Failure to Use O_2 Analyzers to Prevent Hypoxic Accidents, **58:** 287
Rendell-Baker, L., *see* Anderson, C. E.; *also see* Comm, G.; Mushin, W. W.
Restelli, L., Movilia, P., Bossi, L., Caironi, C.: Management of Pain after Thoracotomy: A Technique of Multiple Intercostal Nerve Blocks, **61:** 353
Reves, J. G.: The Relative Hemodynamic Effects of Ca^{++} Entry Blockers, **61:** 3
Reves, J. G., Kissin, I., Fournier, S.: Negative Inotropic Effects of Midazolam, **60:** 517
Reves, J. G., Kissin, I., Lell, W. A., Tosone, S.: Calcium Entry Blockers: Uses and Implications for Anesthesiologists, **57:** 504
Reves, J. G., Kissin, I., Smith, L. R.: The Effective Dose of Midazolam, **55:** 82
Reves, J. G., *see* Kissin, I.; *also see* Pearson, J.; Vinik, H. R.
Rey, F., *see* Prokocimer, P.
Reynolds, A. C.: Disconnect Alarm Failure, **58:** 488
Reynolds, A. C., *see* Davidson, A. J.; *also see* Gandhi, S. K.
Reynolds, R. C., *see* Torres G., L. E.
Rhyne, L., *see* Dewan, D. M.; *also see* James, F. M., III
Ribarić, L., *see* Morio, M.
Ricca, J., *see* Siler, J. N.
Riccio, M. F., *see* Gold, M. I.
Rice, S. A., Dooley, J. R., Mazze, R. I.: Ethanol and Anesthetic Defluorination, **58:** 237
Rice, S. A., Sbordone, L., Mazze, R. I.: Metabolism by Rat Hepatic Microsomes of Fluorinated Ether Anesthetics Following Isoniazid Administration, **53:** 489
Rice, S. A., Sievenpiper, T. S., Mazze, R. I.: Liver Function and Anesthetic Metabolism in Rats with Chronic Renal Impairment, **60:** 418
Rice, S. A., *see* Baden, J. M.; *also see* Fish, K. J.
Richalet, J. P., *see* Lemaire, F.
Richardson, C. A., *see* Cahalan, M. K.
Richey, E. T., *see* Grundy, B. L.
Richman, K. A., Jobes, D. R., Schwalb, A. J.: Continuous *In-vivo* Blood-gas Determination in Man: Reliability and Safety of a New Device, **52:** 313
Richman, K. A., Kim, Y. L., Marshall, B. E.: Thrombocytopenia and Altered Platelet Kinetics Associated with Prolonged Pulmonary-artery Catheterization in the Dog, **53:** 101
Richman, K. A., *see* Kim, Y. L.
Richter, J. J.: Current Theories About the Mechanisms of Benzodiazepines and Neuroleptic Drugs, **54:** 66
Riddick, L., *see* Ott, V. V.
Riddle, R. T.: Reply, **61:** 635
Rigel, E. P., *see* Hug, C. C., Jr.
Rigg, J. R. A., Rondi, P.: Changes in Rib Cage and Diaphragm Contribution to Ventilation after Morphine, **55:** 507
Riley, E., *see* Dolan, P.
Riopelle, J. M.: Modification of Dinamap® for Mechanical Sphygmomanometry, **57:** 245
Rita, L., Seleny, F.: Endotracheal Tube Ignition during Laryngeal Surgery with Resectoscope, **56:** 60
Rita, L., Seleny, F., Holinger, L. D.: Anesthetic Management and Gas Scavenging for Laser Surgery of Infant Subglottic Stenosis, **58:** 191
Ritchie, I. M., *see* Korman, B.
Ritter, R. R., *see* Smith, S. L.; *also see* Weddel, S. J.
Rivat, E. L., *see* Park, W. Y.
Rivera, O., *see* McGill, W. A.
Rizzoli, H. V., *see* Horowitz, N. H.
Roa, N. L., Krupin, B. R.: Glossopharyngeal Neuralgia with Syncope—Anesthetic Considerations, **54:** 426
Roake, G. M., *see* Rannels, D. E.
Roberts, J. T., *see* Murphy, A. L.
Roberts, L. S., Rayburn, R. L., Matlak, M. E., Nixon, G. W.: A Unique Method for the Anesthetic Management of Laryngeal Foreign Bodies, **56:** 480
Roberts, R. B., Blake, B. C., Bruggeman, G. E.: Tension Pneumoperitoneum—A Cause of Ventilatory Obstruction, **55:** 326
Roberts, R. B., Shirley, M. A.: Antacid Therapy in Obstetrics, **53:** 83
Roberts, R. B., *see* Blass, N. H.
Robertson, D., *see* Stanley, T. H.
Robinson, S.: Pulmonary Artery Catheters in Eisenmenger's Syndrome, **58:** 588
Robinson, S., *see* Fisher, D. M.; *also see* Lerman, J.; Verrier, E. D.; Ware, R. E.; Wear, R.
Robinson, S. L., *see* Morris, R. B.
Robotham, J. L., Chipps, B. E., Shermeta, D. W.: Continuous Positive Airway Pressure in Hemidiaphragmatic Paralysis, **52:** 167
Rockoff, M. A., Goudsouzian, N. G.: Seizures Induced by Methohexital, **54:** 333
Rockoff, M. A., Naughton, K. V. H., Shapiro, H. M., Ingvar, M., Ray, K. F., Gagnon, R. L., Marshall, L. F.: Cerebral Circulatory and Metabolic Responses to Intravenously Administered Lorazepam, **53:** 215
Rockoff, M. A., *see* Allen, E. M.; *also see* Schwartz, L.
Rodarte, A.: Heparin-Lock for Repeated Anesthesia in Pediatric Radiation Therapy, **56:** 316
Rodriguez J., G., *see* Barros R., S.
Roerig, D. L., *see* Kotrly, K. J.
Roesch, R. P., Stoelting, R. K., Lingeman, J. E., Kahnoski, R. J., Backes, D. J., Gephardt, S. A.: Ammonia Toxicity from Glycine Absorption during Transurethral Resection of Prostate, **58:** 577
Rofkar, G., *see* Johans, T. G.
Rog, P., *see* Sebel, P. S.
Rogers, M. C., *see* Backofen, J. E.; *also see* McPherson, R. W.; Toung, T.
Rogers, S. N., Benumof, J. L.: New and Easy Techniques for Fiberoptic Endoscopy-aided Tracheal Intubation, **59:** 579
Röhrborn, G., *see* Basler, A.
Roizen, M. F., Hamilton, W. K., Sohn, Y. J.: Treatment of Stress-induced Increases in Pulmonary Capillary Wedge Pressure Using Volatile Anesthetics, **55:** 446
Roizen, M. F., Horrigan, R. W., Frazer, B. M.: Anesthetic Doses Blocking Adren-

ergic (Stress) and Cardiovascular Responses to Incision–MAC BAR, **54:** 390
Roizen, M. F., Palumbo, P. J.: Is Tight Perioperative Control of Diabetes Warranted, **56:** 242
Roizen, M. F., *see* Beaupre, P. N.; *also see* Gencarelli, P. J.; Joyce, J. T.; Quasha, A. L.; Weiskopf, R. B.
Rolbin, S. H., Moffett, J.: An Unusual Cause of Leakage in an Anesthesia System is More Usual Than It Should Be, **56:** 333
Rolbin, S. H., *see* Cole, A. F. D.; *also see* Gibbs, C. P.
Rolling, G. D., *see* Blitt, C. D.
Romsa, D. E., *see* Ovassapian, A.
Rondi, P., *see* Rigg, J. R. A.
Rongier, P., *see* Fischler, M.
Rooke, G. A., Peterson, G. N., Faulhaber, J. A., Buffington, C. W.: Were Differences in Reinfarction Rates due to Differences in Populations, **61:** 213
Rooney, S.-M., *see* Goldiner, P. L.
Ropper, A. L. (ed.), Kennedy, S. K. (ed.), Zervas, N. T. (ed.): Neurological and Neurosurgical Intensive Care, **59:** 171
Rorie, D. K., *see* Hyatt, M.; *also see* Lunn, J. J.; Thompson, G. E.
Rosales, J. K., *see* Joel, M.
Rosano, J. G.: Manufacturer's Comment, **58:** 587
Rose, J. C., *see* Wheeler, A. S.
Rosen, M. A., *see* Kotelko, D. M.
Rosen, P., Sternbach, G. I.: Atlas of Emergency Medicine, **52:** 288
Rosenbaum, A. E., *see* McPherson, R. W.
Rosenbaum, L. M., *see* Cozine, K.; *also see* Rosenbaum, S. H.
Rosenbaum, S. H., Rosenbaum, L. M., Cole, R. P., Askanazi, J., Hyman, A. I.: Use of the Flexible Fiberoptic Bronchoscope to Change Endotracheal Tubes in Critically Ill Patients, **54:** 169
Rosenbaum, S. H., *see* Askanazi, J.; *also see* Cozine, K.; Damask, M. C.
Rosenberg, H., Clofine, R., Bialik, O.: Neurologic Changes During Awakening from Anesthesia, **54:** 125
Rosenberg, H., Fisher, C. A., Reed, S. B., Addonizio, P.: Platelet Aggregation in Patients Susceptible to Malignant Hyperthermia, **55:** 621
Rosenberg, H., Heiman-Patterson, T.: Duchenne's Muscular Dystrophy and Malignant Hyperthermia: Another Warning, **59:** 362
Rosenberg, H., *see* Greenfeld, A. L.
Rosenberg, M., Tobias, R., Bourke, D., Kamat, V.: Respiratory Responses to Surgical Stimulation during Enflurane Anesthesia, **52:** 163
Rosenberg, M., *see* Bourke, D. L.; *also see* Lisman, S. R.
Rosenberg, P., *see* Salmenperä, M.
Rosenberg, P. H., Kalso, E. A., Tuominen, M. K., Lindén, H. B.: Bupivacaine Toxicity due to Venous Leakage Under Tourniquet Cuff during Bier Block, **58:** 95
Rosenberry, K. R., *see* Brzustowicz, R. M.
Rosenblatt, R., *see* Block, S.
Rosenblatt, R. M.: Dextran Is Not a Potent Local Anesthetic Adjuvant, **55:** 480
Rosenblatt, R. M., *see* Hetherington, A.; *also see* Wangler, M. A.
Rosenthal, M. H., *see* Mihm, F. G.; *also see* Pearl, R. G.; Shafer, A.; Stanski, D. R.; Yelderman, M.
Rosow, C. E., Moss, J., Philbin, D. M., Savarese, J. J.: Histamine Release during Morphine and Fentanyl Anesthesia, **56:** 93
Rosow, C. E., Philbin, D. M., Keegan, C. R., Moss, J.: Hemodynamics and Histamine Release during Induction with Sufentanil or Fentanyl, **60:** 489
Rosow, C. E., *see* Coté, C. J.; *also see* Moss, J.; Philbin, D. M.
Ross, D. C., *see* Longnecker, D. E.
Ross, D. H., *see* Loh, H. H.
Ross, W. T., Jr., Lake, C. L., Wellons, H. A.: Cardiopulmonary Bypass Complicated by Inadvertent Carotid Cannulation, **54:** 85
Rossi, D., *see* Shupak, R. C.
Rothblatt, A. J., *see* Cohen, S. E.
Rouby, J. J., Fusciardi, J., Bourgain, J. L., Viars, P.: High-frequency Jet Ventilation in Postoperative Respiratory Failure: Determinants of Oxygenation, **59:** 281
Rouge, J.-Cl., *see* Forster, A.
Rouman, W. C., *see* Munshi, C.
Roush, J. R., *see* Manchikanti, L.,
Rousseau, P., *see* Perreault, L.
Routman, M., *see* Boyce, J. R.
Rowlingson, J. C., DiFazio, C. A., Foster, J., Carron, H.: Lidocaine as an Analgesic for Experimental Pain, **52:** 20
Rowlingson, J. C., *see* Korbon, G. A.
Roy R.: Cardiovascular Effects of Ketamine Given to Relieve Penile Turgescence after High Doses of Fentanyl, **61:** 610
Roy, R., *see* Prough, D. S.
Roy, R. C.: Does Isoflurane Really Preserve Baroreflex Responsiveness Better than Halothane or Enflurane, **61:** 482
Roy, R. C.: Effect of Brain Levels of Drugs on the Validity of Techniques Measuring Ventilatory Depression, **60:** 264
Roy, R. C., McLain, S., Wise, A., Shaffner, L. D.: Anesthetic Management of Hallervorden-Spatz Disease, **58:** 382
Roy, R. C., Morgan, L., Beamer, D.: Factitiously Low Blood Pressure from the Dinamap™, **59:** 258
Roy, R. C., Stullken, E. H.: Electroencephalographic Evidence of Arousal in Dogs from Halothane after Doxapram, Physostigmine, or Naloxone, **55:** 392
Royster, R. L.: Preoperative Management of Atrial Fibrillation, **59:** 602
Royster, R. L., Johnson, J. C., Prough, D. S., Johnston, W. E., Beamer, W. C.: Differences in Pulmonary Artery Wedge Pressures Obtained by Balloon Inflation *versus* Impaction Techniques, **61:** 339
Royster, R. L., *see* Johnston, W. E.
Rubin, G. L., *see* Peterson, H. B.
Rubin, J., *see* Brock-Utne, J. G.
Rudd, G. D., *see* Goudsouzian, N. G.
Rudd, M., *see* Klein, M. D.
Rude, R. E., *see* Davis, R. F.
Rudick, V., *see* Chayen, M. S.
Ruffin, J. C., *see* Arnold, W. P.
Rugheimer, E. (ed.), Zindler, M. (ed.): Anesthesiology-Proceedings of the 7th World Congress of Anaesthesiologists: Hamburg, September 14–21, 1980, **56:** 77
Ruhland, G., Hinkle, A. J.: Malignant Hyperthermia after Oral and Intravenous Pretreatment with Dantrolene in a Patient Susceptible to Malignant Hyperthermia, **60:** 159
Ruhland, G., *see* Hinkle, A. J.
Ruiz, B. C., *see* Bergquist, R. E.
Rumley, T. O.: Etiologic Factors in Determining Explosive Colonic Gas Mixtures, **58:** 195
Rupp, S. M., Miller, R. D., Gencarelli, P. J.: Vecuronium-induced Neuromuscular Blockade during Enflurane, Isoflurane, and Halothane Anesthesia in Humans, **60:** 102
Rupp, S. M., *see* Fahey, M. R.; *also see* Miller, R. D.
Ruppel, G.: Manual of Pulmonary Function Testing, **52:** 195
Rupreht, J.: Physostigmine Reversal of Diazepam, **53:** 180
Rupreht, J., Dworacek, B., Ducardus, R., Schmitz, P. I. M., Dzoljic, M. R.: Central Cholinergic and Endorphinergic Systems in N_2O Withdrawal Syndrome, **58:** 524
Rupreht, J., *see* van Poorten, J. F.
Rush, N. L., *see* Samra, S. K.
Russ, W., Kling, D., Loesevitz, A., Hempelmann, G.: Effect of Hypothermia on Visual Evoked Potentials (VEP) in Humans, **61:** 207
Russell, J., *see* Bourke, D. L.
Russell, R.: A Method for Prolonging Life—In Batteries, **56:** 233
Rusy, B. F., *see* Komai, H.; *also see* Avery, P.
Ruttimann, U. E., *see* Abramowitz, M. D.; *also see* Hannallah, R. S.
Ryan, J. F., *see* Coté, C. J.; *also see* Liu, L. M. P.; Murphy, A. L.
Ryder, W. A., *see* Lowenstein, E.

S

Saada, J., *see* Duvaldestin, P.
Saba, T. M., *see* Lefer, A. M.
Sachdev, K., Cohen, E. N., Simmon, V. F.: Genotoxic and Mutagenic Assays of Halothane Metabolites in *Bacillus subtilis* and *Salmonella typhimurium*, **53:** 31
Safar, P., *see* Gisvold, S. E.
Safwat, A. M., Daniel, D.: Grand Mal Seizure after Fentanyl Administration, **59:** 78

Sager, H., *see* Drummond, J. C.
Saidman, L. J., *see* Hudson, R. J.; *also see* Scheller, M. S.; Westover, J.
Saini, V. K., *see* Travis, K. W.
Saito, H., Akutagawa, T., Kitahata, L. M., Stagg, D., Collins, J. G., Scurlock, J. E.: Interactions of Lidocaine and Calcium in Blocking the Compound Action Potential of Frog Sciatic Nerve, **60:** 205
Saito, M., *see* Muneyuki, M.
Saitto, C., Gristina, G., Cosmi, E. V.: Treatment of Hiccups by Continuous Positive Airway Pressure (CPAP) in Anesthetized Subjects, **57:** 345
Sakabe, T., Maekawa, T., Fujii, S., Ishikawa, T., Tateishi, A., Takeshita, H.: Cerebral Circulation and Metabolism during Enflurane Anesthesia in Humans, **59:** 532
Sakakura, S., *see* Muneyuki, M.
Saklad, M., Weyerhaeuser, R.: The Construction of Linear Resistances for the Testing of Ventilators, **52:** 71
Sakuma, K., *see* Morishima, H. O.
Salbaing, J., *see* Martin, R.
Salem, M. R., *see* Rao, T. L. K.
Salerno, T. A., *see* Milne, B.
Salmenperä, M.: An Erroneous CVP with the Triple-lumen Catheter in a Short Patient, **57:** 423
Salmenperä, M., Peltola, K., Rosenberg, P.: Does Prophylactic Lidocaine Control Cardiac Arrhythmias Associated with Pulmonary Artery Catheterization, **56:** 210
Salvadori, C., *see* Pandele, G.
Salzer, J., *see* Thiagarajah, S.
Sameshima, T., *see* Goromaru, T.
Samii, K., Elmelik, E., Goutalier, D., Viars, P.: Hemodynamic Effects of Prosthesis Insertion during Knee Replacement without Tourniquet, **52:** 271
Samra, S. K., Lilly, D. J., Rush, N. L., Kirsh, M. M.: Fentanyl Anesthesia and Human Brain-stem Auditory Evoked Potentials, **61:** 261
Samra, S. K., *see* Kothary, S. P.
Samson, F., *see* Nelson, S. R.; *also see* Oguchi, K.
Samuels, S. I., Maze, M.: Beta-receptor Blockade Following the Use of Eye Drops, **52:** 369
Samuels, S. I., *see* Maze, A.
Sanderson, A. C., *see* Grundy, B. L.
Sandler, A. N., *see* Shulman, M. S.
Santesson, J., *see* Hedenstierna, G.
Santiago, T. V., *see* Doblar, D. D.
Santos, H. B., *see* Jawalekar, S. R.
Sari, A., *see* Oshita, S.
Sarkis, F., *see* Abboud, T. K.
Sarnat, A. J.: A Simple Device for Testing Peripheral Nerve Stimulators, **61:** 624
Sarnat, A. J., *see* Scheller, M. S.
Sarnquist, F. H., Mathers, W. D., Brock-Utne, J., Carr, B., Canup, C., Brown, C. R.: A Bioassay of a Water-soluble Benzodiazepine Against Sodium Thiopental, **52:** 149
Sass, D. J.: V-Lead Adapter, **52:** 78
Sassano, J. J., *see* Marquez, J.
Sato, T., *see* Uehira, A.
Satwicz, P. R., *see* DiNardo, J. A.; *also see* Hannenberg, A. A.
Saucedo, R., *see* Szeinfeld, M.
Saunders, L., *see* Spiegelman, W. G.
Saunders, R., *see* Jung, D.
Saunders, R. J., Humphrey, M.: A Simple Device for Remote Monitoring of Respiration, **55:** 609
Saunders, R. L., *see* Coombs, D. W.
Savarese, J. J.: The New Neuromuscular Blocking Drugs Are Here, **55:** 1
Savarese, J. J., Ali, H. H., Basta, S. J., Sunder, N., Moss, J., Gionfriddo, M. A., Lineberry, C. G., Wastila, W. B., El-Sayad, H. A., Montague, D.: Clinical Pharmacology of BW A444U, **58:** 333
Savarese, J. J., *see* Ali, H. H.; *also see* Donlon, J. V., Jr.; Martyn, J. A. J.; Moss, J.; Philbin, D. M.; Rosow, C. E.
Sawada, Y., Sugimoto, H., Kobayashi, H., Ohashi, N., Yoshioka, T., Sugimoto, T.: Acute Tolerance to High-Dose Barbiturate Treatment in Patients with Severe Head Injuries, **56:** 53
Sawada, Y., *see* Uenishi, M.
Sawhney, K. K., Yoon, Y. K.: Erroneous Labeling of a Nitrous Oxide Cylinder, **59:** 260
Sawyer, D. D., *see* Cook, T. G.
Saxena, P. R., Dhasmana, K. M., Prakash, O.: A Comparison of Systemic and Regional Hemodynamic Effects of *d*-Tubocurarine, Pancuronium, and Vecuronium, **59:** 102
Sbordone, L., *see* Rice, S. A.
Scamman, F. L., Babin, R. W.: An Unusual Complication of Nasotracheal Intubation, **59:** 352
Scamman, F. L., *see* Ashman, M. N.
Scappaticci, K. A., Ham, J. A., Sohn, Y. J., Miller, R. D., Dretchen, K. L.: Effects of Furosemide on the Neuromuscular Junction, **57:** 381
Scarff, T. B., *see* Gorski, D. W.
Schachner, S. M., Abram, S. E.: Use of Two Epidural Catheters to Provide Analgesia of Unblocked Segments in a Patient with Lumbar Disc Disease, **56:** 150
Schaefer, C. F.: Regarding the Misuse of *t* Tests, **60:** 505
Schaenzer, G., *see* Avery, P.
Schafer, M. F., *see* Ovassapian, A.
Schaff, H. V., *see* Sill, J. C.
Schauble, J. F., *see* Backofen, J. E.; *also see* Maruschak, G. F.
Scheck, P. A., Sjostrand, U. H., Smith, R. B.: Perspectives in High Frequency Ventilation, **61:** 234
Scheer, K., *see* Chapin, J. W.
Scheidegger, D., *see* Howland, W. S.
Scheller, M. S., Saidman, L. J.: An Aid to Identifying the External Jugular Vein, **57:** 546
Scheller, M. S., Sarnat, A. J., Astarita, R. W.: Unintentional Removal of Meningeal Tissue with a 25-Gauge Spinal Needle during Spinal Anesthesia: A Case Report, **61:** 593
Schick, L. M., Chapin, J. C., Munson, E. S., Kushins, L. G.: Pancuronium, *d*-Tubocurarine, and Epinephrine-induced Arrhythmias during Halothane Anesthesia in Dogs, **52:** 207
Schick, L. M., *see* Chapin, J. C.
Schiller, N. B., *see* Beaupre, P. N.
Schimek, F., Sumi, S. M., Fink, B. R.: Differential Effects of Hypoosmotic Hyponatric Swelling on A and C Fibers, **60:** 198
Schimek, F., *see* Chapman, C. R.
Schlag, G., *see* Zimpfer, M.
Schlickewei, A., *see* Buzello, W.
Schlobohm, R. M., Falltrick, R. T., Quan, S. F., Katz, J. A.: Lung Volumes, Mechanics, and Oxygenation during Spontaneous Positive-Pressure Ventilation: the Advantage of CPAP Over EPAP, **55:** 416
Schlobohm, R. M., *see* Quan, S. F.; *also see* White, P. F.
Schmid, E. R., Rehder, K.: General Anesthesia and the Chest Wall, **55:** 668
Schmidt, D., *see* Gibbs, C. P.
Schmidt, W. G., *see* Mantia, A. M.
Schmitz, P. I. M., *see* Rupreht, J.
Schneider, R. C., *see* Lowenstein, E.; *also see* Philbin, D. M.
Schonwald, G., Fish, K. J., Perkash, I.: Cardiovascular Complications during Anesthesia in Chronic Spinal Cord Injured Patients, **55:** 550
Schotz, S.: An Anesthesiology Liaison Service, **52:** 190
Schreiber, P. J.: Corrections Concerning Alleged Disconnect Alarm Failure, **59:** 611
Schuessler, G. B., *see* Chen, R. Y. Z.; *also see* Fan, F.-C.
Schuette, W., *see* Lees, D. E.
Schuller, J. L., *see* Knape, J. T. A.
Schulman, D. S., Kaufman, J. J., Eisenstein, M. M., Rapoport, S. I.: Blood *p*H and Brain Uptake of ^{14}C-Morphine, **61:** 540
Schulte-Sasse, U., Hess, W., Tarnow, J.: Pulmonary Vascular Responses to Nitrous Oxide in Patients with Normal and High Pulmonary Vascular Resistance, **57:** 9
Schulte-Sasse, U., Hess, W., Tarnow, J.: Reply to: Pulmonary Vascular Impedance, **58:** 485
Schultz, R. C.: Outpatient Surgery, **52:** 530
Schumer, W., Spitzer, J. J., Marshall, B. E.: Advances in Shock Research, **52:** 197
Schüttler, J., White, P. F.: Optimization of the Radioimmunoassays for Measuring Fentanyl and Alfentanil in Human Serum, **61:** 315
Schüttler, J., *see* Shafer, A.
Schwalb, A. J., *see* Richman, K. A.
Schwam, S. J., Gold, M. I.: ASA PS Classification Is Not Risk Classification, **57:** 68
Schwartz, A. J., Jobes, D. R., Levy, W. J., Palermo, L., Ellison, N.: Intrathoracic Vas-

cular Catheterization Via the External Jugular Vein, **56:** 400

Schwartz, A. J., *see* Campbell, F. W.; *also see* Ellison, N.; Jobes, D. R.; Lieberman, R. W.

Schwartz, L., Rockoff, M. A., Koka, B. V.: Masseter Spasm with Anesthesia: Incidence and Implications, **61:** 772

Schweiss, J. F., *see* Forand, J. M.; *also see* Ikeda, S.

Schweitzer, S. A.: Avoiding Intravascular Injections during Epidural Anesthesia, **53:** 81

Scott, D., *see* Kafer, E. R.

Scott, J. M., *see* O'Sullivan, H.

Scott, P. V.: Editorials Should Elucidate not Obfuscate II, **57:** 554

Scurlock, J. E., Curtis, B. M.: Tetraethylammonium Derivatives: Ultralong-acting Local Anesthetics, **54:** 265

Scurlock, J. E., *see* Curtis, B. M.; *also see* Moore, D. C.; Saito, H.

Scurr, C., Feldman, S.: Scientific Foundations of Anaesthesia, **59:** 268

Scurr, C. (ed.), Feldman, S. (ed.): Scientific Foundations of Anaesthesia, **59:** 268

Seagard, J. L.: Reply, **61:** 480

Seagard, J. L., Elegbe, E. O., Hopp, F A., Bosnjak, Z. J., von Colditz, J. H., Kalbfleisch, J. H., Kampine, J. P.: Effects of Isoflurane on the Baroreceptor Reflex, **59:** 511

Seagard, J. L., Hopp, F. A., Bosnjak, Z. J., Elegbe, E. O., Kampine, J. P.: Sensitization of Baroreceptors by Halothane, **58:** 432

Seagard, J. L., Hopp, F. A., Bosnjak, Z. J., Osborn, J. L., Kampine, J. P.: Sympathetic Efferent Nerve Activity in Conscious and Isoflurane-anesthetized Dogs, **61:** 266

Seagard, J. L., Hopp, F. A., Donegan, J. H., Kalbfleisch, J. H., Kampine, J. P.: Halothane and the Carotid Sinus Reflex: Evidence for Muliple Sites of Action, **57:** 191

Seagard, J. L., *see* Bachhuber, S. R.; *also see* Bosnjak, Z. J.

Seagram, C. G. F., *see* Brownell, A. K. W.

Seals, C., *see* Hoffman, W. E.

Sebel, P. S., Bovill, J. G., Wauquier, A., Rog, P.: Effects of High-dose Fentanyl Anesthesia on the Electroencephalogram, **55:** 203

Sebel, P. S., *see* Bovill, J. G.

Seeler, D. C., Thurmon, J. C.: Thiobarbiturates Induce Arrhythmias in Dogs, **58:** 394

Seidman, S. F., *see* Yao, F.-S.

Seifen, A. B., *see* Clark, R. B.

Seleny, F., *see* Rita, L.

Sellers, W. F. S., Goddard, R. H.: More about *d*-Tubocurarine and Succinylcholine in Obstetrics, **60:** 506

Sentker, C., *see* English, J. B.

Seo, N., Oshima, E., Stevens, J., Mori, K.: The Tetraphasic Action of Lidocaine on CNS Electrical Activity and Behavior in Cats, **57:** 451

Seow, L. T., Lips, F. J., Cousins, M. J., Mather, L. E.: Lidocaine and Bupivacaine Mixtures for Epidural Blockade, **56:** 177

Serra, M., *see* Brodsky, J. B.

Sethna, D., Moffitt, E., Gray, R., Bussell, J., Raymond, M., Conklin, C., Shell, W., Matloff, J.: Effects of Digoxin on Myocardial Oxygen Supply and Demand in Patients Following Coronary Artery Bypass Surgery, **56:** 356

Severinghaus, J. W.: Vive Pascal but Kilo Newton, **59:** 486

Severinghaus, J. W., *see* Cahalan, M. K.; *also see* Ozanne, G. M.

Seward, J. B., *see* Cucchiara, R. F.

Seyde, W. C., Longnecker, D. E.: Anesthetic Influences on Regional Hemodynamics in Normal and Hemorrhaged Rats, **61:** 686

Shader, R. I., *see* Greenblatt, D. J.

Shafer, A., White, P. F., Schüttler, J., Rosenthal, M. H.: Use of a Fentanyl Infusion in the Intensive Care Unit: Tolerance to Its Anesthetic Effects, **59:** 245

Shaffner, L. D., *see* Roy, R. C.

Shah, J., Pedemonte, M. S., Wilcock, M. M.: Hydrogen Peroxide May Cause Venous Oxygen Embolism, **61:** 631

Shah, K. B., Rao, T. L. K., Laughlin, S., El-Etr, A. A.: A Review of Pulmonary Artery Catheterization in 6,245 Patients, **61:** 271

Shalev, D., *see* Shapiro, L. A.

Shanks, C. A., Ramzan, M. I., Triggs, E. J.: Two- *vs.* Three-compartment Model for Analysis of *d*-Tubocurarine Pharmacokinetics, **52:** 375

Shanks, C. A., *see* Fragen, R. J.

Shannon, G., *see* Prough, D. S.

Shapiro, B. A., Harrison, R. A., Trout, C. A.: Clinical Applications of Respiratory Care, **53:** 272

Shapiro, B. A., *see* Cane, R. D.

Shapiro, H. M.: Brain Resuscitation: The Chicken Should Come before the Egg, **60:** 85

Shapiro, H. M., *see* Alfery, D. D.; *also see* Drummond, J. C.; Ingvar, M.; Levy, W. J.; Rockoff, M. A.; Todd, M. M.; Tommasino, C.

Shapiro, L. A., jedeikin, R. J., Shalev, D., Hoffman, S.: Epidural Morphine Analgesia in Children, **61:** 210

Shapiro, L-A., Jedeikin, R., Hoffman, S.: Misdiagnosis Due to ECG Failure, **60:** 166

Shapiro, W. A., *see* Kotelko, D. M.

Sharbrough, F. W., Quasha, A. L., Tinker, J. H.: Reply to: Hypothermia and the Electroencephalogram, **58:** 396

Sharbrough, F. W., *see* Gronert, G. A.; *also see* Quasha, A. L.

Sharer, N. M., Monk, S. J., Nunn, J. F.: No Effect of Hyperbaric Oxygen on Methionine Synthetase Activity in Rats, **59:** 440

Sharma, M., *see* Fahey, M. R.; *also see* Fisher, D. M.; Hennis, P. J.

Sharrock, N. E.: Postural Headache Following Thoracic Somatic Paravertebral Nerve Block, **52:** 360

Shaw, C.-M., *see* Dong, W. K.

Shaw, L. M., *see* Gross, J. B.

Sheikj, F. (associate contributor), *see* Trickey, D. L.

Sheiner, L. B., *see* Cahalan, M. K.; *also see* Kopman, A. F.; Stanski, D. R.

Shell, W., *see* Sethna, D.

Shepherd, N. J., *see* Lisman, S. R.

Shepherd, R. M., *see* Martz, K. V.

Sherman, J., *see* Triner, L.

Shermeta, D. W., *see* Robotham, J. L.

Sherrill, D., *see* Goldman, E.

Sherwood, H. L., *see* Sprague, D. H.

Shibata, T., *see* Asari, H.

Shimada, Y., Yoshiya, I., Hirata, T., Takezawa, J., Taenaka, N.: Evaluation of a System for On-line Analysis of $\dot{V}_{O_2}$ and $\dot{V}_{CO_2}$ for Clinical Applicability, **61:** 311

Shimidzu, Y., *see* Kawamoto, M.

Shimoji, K., Fujioka, H., Fukazawa, T., Hashiba, M., Maruyama, Y.: Anesthetics and Excitatory/Inhibitory Responses of Midbrain Reticular Neurons, **61:** 151

Shinohara, Y., *see* Dailey, P. A.

Shinozaki, T., Deane, R. S., Mazuzan, J. E.: The Dynamic Responses of Liquid-filled Catheter Systems for Direct Measurements of Blood Pressure, **53:** 498

Shipley, R., *see* Toung, T. J. K.

Shipley, S. B., *see* Drain, C. B.

Shirahata, M., *see* Nishino, T.

Shires, G. T.: Care of the Trauma Patient, **52:** 530

Shirley, M. A., *see* Roberts, R. B.

Shnider, S. M., *see* Amiel-Tison, C.; *also see* Dailey, P. A.; Kotelko, D. M.; Stefani, S. J.

Shoup, C. A., McHenry, R. N.: Laboratory Exercises in Respiratory Therapy, **52:** 289

Showman, A., Betts, E. K.: Hazard of Automatic Noninvasive Blood Pressure Monitoring, **55:** 717

Shulman, K., *see* Thiagarajah, S.

Shulman, M., Braverman, B., Ivankovich, A. D., Gronert, G.: Sevoflurane Triggers Malignant Hyperthermia in Swine, **54:** 259

Shulman, M., Sandler, A. N., Bradley, J. W., Young, P. S., Brebner, J.: Postthoracotomy Pain and Pulmonary Function Following Epidural and Systemic Morphine, **61:** 569

Shulman, M., *see* Ivankovich, A. D.

Shulman, M. S.: Uvular Edema without Endotracheal Intubation, **55:** 82

Shulman, M. S., Brebner, J., Cain, J., Sandler, A.: Bronchopulmonary Lung Lavage, **59:** 607

Shulman, M. S., Trollope, M.: The Fiberoptic Gastroscope for Difficult Endotracheal Intubation, **56:** 476

Shupak, R. C.: A New Tracheal Tube for Head and Neck Surgery, **60:** 621

Shupak, R. C., Harp, J. R., Stevenson-Smith, W., Rossi, D., Buchheit, W. A.: High-dose Fentanyl for Neuroanesthesia, **58:** 579

Shupak, R. C., Shuster, H., Funch, R. S.: Air-

way Emergency in a Patient during CO_2 Arthroscopy, **60:** 171
Shupak, R. C., *see* Urquhart, G. R.
Shustack, A., *see* McTaggart, R. A.
Shuster, H., *see* Shupak, R. C.
Shwiry, B., *see* Giffin, J. P.
Sia, R. L., *see* Gregoretti, S. M.
Sidhu, M. S., Cullen, B. F.: Low-dose Enflurane Does Not Increase Blood Loss during Therapeutic Abortion, **57:** 127
Siegel, M., Coleprate, P.: Complication of Fiberoptic Bronchoscope, **61:** 214
Siesjö, B. K.: Cerebral Metabolic Rate in Hypercarbia—A Controversy, **52:** 461
Siesjö, B. K., *see* Smith, D. S.
Sievenpiper, T. S., Fallacaro, M. D.: Did Anesthetic Mismanagement Contribute to Intraoperative Death? II, **61:** 791
Sievenpiper, T. S., *see* Mazze, R. I.; *also see* Fish, K.; Rice, S. A.
Siker, E. S.: The 1981 Rovenstine Lecture—A Measure of Worth, **57:** 219
Siler, J. N., Cook, F. J., Ricca, J., Verma, R. S.: Does "Self-taming" Decrease Postoperative Myalgia in Outpatients, **52:** 98
Sill, J. C., Nugent, M., Moyer, T. P., Torres, L. E., Schaff, H. V., Tinker, J. H.: Influence of Propranolol Plasma Levels on Hemodynamics during Coronary Artery Bypass Surgery, **60:** 455
Silver, I. A., *see* Longnecker, D. E.
Silverberg, G., *see* Ream, A. K.
Silverstein, P. R., *see* Morley, T. S.
Simchon, S., *see* Fan, F.-C.
Simmon, V. F., *see* Sachdev, K.
Simmonds, R. C.: Anesthesia and Pet Euthanasia, **53:** 522
Simoneau, G., *see* Lemaire, F.
Simonet, F., *see* Gamulin, Z.
Simpson, J. C., *see* Watson, D.
Simpson, P. J., *see* Carrie, L. E. S.
Sinclair, I., *see* Caldwell, C.
Sindermann, C. J.: Winning the Games Scientists Play, **59:** 613
Singer, P., *see* Meyers, E. F.
Singh, P., *see* Ford, D. J.
Singh, T., *see* Thiagarajah, S.
Singler, R. C.: An Improved Technique for Alcohol Neurolysis of the Celiac Plexus, **56:** 137
Singler, R. C.: Reply to: An Improved Technique for Celiac Plexus Block May Be More Theoretical Than Real, **57:** 348
Sinha, K., *see* Capan, L. M.
Sipes, I. G., *see* Lind, R. C.; *also see* Maiorino, R. M.
Sirvaitis, R., *see* Dauchot, P. J.
Sisco, F., *see* Keykhak, M. M.
Sisko, F., *see* Dolan, P.
Sison, O. S., *see* Wilson, R. F.
Sivarajan, M.: Temperature Correction of Arterial Blood-gas Values, **56:** 329
Sjostrand, U. H., *see* Bunegin, L.; *also see* Scheck, P. A.
Skacel, P. O., Chanarin, I., Hewlett, A., Nunn, J. F.: Failure to Correct Nitrous Oxide Toxicity with Folinic Acid, **57:** 557
Skaredoff, M. N., Poppers, P. J.: Sharp Edges in Metal Endotracheal Tubes, **58:** 595
Skarvan, K.: Preoperative Nifedipin Treatment and Anesthesia in Patients with Coronary Heart Disease, **59:** 362
Skarvan, K., Graedel, E., Hasse, J., Stulz, P., Pfisterer, M.: Coronary Artery Spasms after Coronary Artery Bypass Surgery, **61:** 323
Skau, K. A., *see* Dyck, P. J.
Skillman, J. J., *see* Hastings, P. R.
Sklar, G. S., *see* Lanks, K. W.
Skovgaard, L. T., *see* Howardy-Hansen, P.
Skovsted, P., *see* Astrup, J.
Slack, S. J., DeKornfeld, T. J.: Anesthesiology, Continuing Education Review, Second Edition, **61:** 118
Sleeman, D., *see* Milne, B.
Sloan, S. J., *see* Bergquist, R. E.
Slogoff, S., Keats, A. S., Arlund, C.: On the Safety of Radial Artery Cannulation, **59:** 42
Smith, B. A. C., *see* Bourke, D. L.; *also see* Fisher, J. T.
Smith, C. M., *see* Maze, M.
Smith, D., *see* Graybar, G.
Smith, D. E., *see* Weng, J. T.
Smith, D. F., Mihm, F. G., Mefford, I.: Hypertension after Intraoperative Autotransfusion in Bilateral Adrenalectomy for Pheochromocytoma, **58:** 182
Smith, D. S., Rehncrona, S., Siesjö, B. K.: Inhibitory Effects of Different Barbiturates on Lipid Peroxidation in Brain Tissue *in Vitro*: Comparison with the Effects of Promethazine and Chlorpromazine, **53:** 186
Smith, D. S., *see* Bagshaw, R. J.; *also see* Carlsson, C.; Young, M. L.
Smith, E. R., Dresel, P. E.: Site of Origin of Halothane–Epinephrine Arrhythmia Determined by Direct and Echocardiographic Recordings, **57:** 98
Smith, E. R., *see* Dresel, P. E.
Smith, F. R., *see* Holaday, D. A.
Smith, G.: Beneficial Effects of Halothane on Myocardial Ischemia, **55:** 479
Smith, G.: Pretreatment with Nondepolarizing Muscle Relaxant Does Not Decrease Gastric Regurgitation Following Succinylcholine, **56:** 408
Smith, L. R., *see* Gelman, S.; *also see* Gross, J. B.; Kissin, I.; Reves, J. G.; Vinik, H. R.
Smith, M., Kroll, D., Breckenridge, J.: Enflurane Suppression of Complex Ventricular Dysrhythmias, **56:** 148
Smith, N. T., *see* Dubois, M.; *also see* Fukui, Y.
Smith, N. T. (ed.). Miller, R. S. (ed.), Corbascio, A. N. (ed.): Drug Interactions in Anesthesia, **56:** 159
Smith, N. T. (ed.), *see* Gravenstein, J. S. (ed.)
Smith, P. F. F., *see* Turnbull, K. W.
Smith, R. B., *see* Babinski, M.; *also see* Lees, D. E.; Bunegin, L.; Rasch, D. R.; Scheck, P. A.
Smith, R. P., Kruszyna, R., Kruszyna, H.: Reply to: Antagonism of Nitroprusside Effects by Cyanide May Not Be Clinically Relevant (Correspondence), **59:** 160
Smith, R. P., *see* Kruszyna, H.
Smith, R. W., *see* Bennett, M. J.
Smith, S. L., Albin, M. S., Ritter, R. R., Bunegin, L.: CVP Catheter Placement from the Antecubital Veins Using a J-Wire Catheter Guide, **60:** 238
Smith, S. L., *see* Babinski, M. F.
Smith, T. C.: The Environment, Carbon Dioxide, and the *Milieu Intérieur*, **61:** 628
Smith, T. C., *see* Gross, J. B.
Smith, W. D. A.: Under the Influence. A History of Nitrous Oxide and Oxygen Anaesthesia, **59:** 269
Smitka, C. W., *see* Knight, P. R.
Snider, S. M., Levinson, G.: Anesthesia for Obstetrics, **53:** 182
Snir-Mor, I., Weinstock, M., Davidson, J. T., Bahar, M.: Physostigmine Antagonizes Morphine-induced Respiratory Depression in Human Subjects, **59:** 6
Snow, J. C.: Manual of Anesthesia, **60:** 84
Snow, J. C.: Manual of Anesthesia, Second Edition, **60:** 84
Söderborg, B., *see* Hedenstierna, G.
Soga, T., *see* Asari, H.
Sohn, Y. J., *see* Fahey, M. R.; *also see* Gregoretti, S. M.; Miller, R. D.; Roizen, M. F.; Scappaticci, K. A.
Sohn, Y. Z., *see* Torres G., L. E.
Sokoll, M., *see* Mehta, M. P.
Sokoll, M. D., Gergis, S. D.: Antibiotics and Neuromuscular Function, **55:** 148
Sokoll, M. D., Gergis, S. D., Mehta, M., Ali, N. M., Lineberry, C.: Safety and Efficacy of Atracurium (BW33A) in Humans, **58:** 450
Sokoll, M. D., *see* Carter, J. G.
Sokoloff, L., *see* Crosby, G.
Solanki, D., *see* Priano, L. L.
Sollevi, A., Lagerkranser, M., Irestedt, L., Gordon, E., Lindquist, C.: Controlled Hypotension with Adenosine in Cerebral Aneurysm Surgery, **61:** 400
Sollevi, A., *see* Lagerkranser, M.
Solomons, C. C., Masson, N.: Malignant Hyperthermia: Platelet Bioassay, **60:** 265
Son, S. L., Waud, B. E., Waud, D. R.: A Comparison of the Neuromuscular Blocking and Vagolytic Effects of ORG NC45 and Pancuronium, **55:** 12
Sonander, H., *see* Stenqvist, O.
Sonntag, H., Larsen, R., Hilfiker, O., Kettler, D., Brockschnieder, B.: Myocardial Blood Flow and Oxygen Consumption during High-dose Fentanyl Anesthesia in Patients with Coronary Artery Disease, **56:** 417
Sorbo, S., Hudson, R. J., Loomis, J. C.: The

Pharmacokinetics of Thiopental in Pediatric Surgical Patients, **61:** 666
Sørensen, H. R., *see* Astrup, J.
Sørensen, M. B., *see* Reiz, S.
Sørensen, P. M., *see* Astrup, J.
Sosis, M.: In Defense of Volatile Anesthetics for Short Outpatient Surgery, **60:** 605
Souron, R. J., *see* Pinaud, M. L. L.; *also see* Meignier, M.; Villers, D.
Spain, J. A.: Cost of Delivery of Anesthetic Gases Re-examined. III, **55:** 711
Spalitta, J. T., Marino, R. J.: More on One-lung Lavage, **59:** 166
Spaulding, B. C., Choi, S. D., Gross, J. B., Apfelbaum, J. L., Broderson, H.: The Effect of Physostigmine on Diazepam-induced Ventilatory Depression: A Double-blind Study, **61:** 551
Spector, S., *see* Matteo, R. S.
Speers, L., *see* Koblin, D. D.
Spence, D., *see* Milne, B.
Spencer, R. J., *see* Hilberman, M.; *also see* Maseda, J.
Sperelakis, N., *see* Lynch, C., III
Spetzler, R. F., *see* Grundy, B. L.
Spiegelman, W. G., Saunders, L., Mazze, R. I.: Addiction and Anesthesiology, **60:** 335
Spielman, F., Wolf, S.: A Further Plea to Standardize Equipment, **55:** 337
Spielman, F. J., Ghia, J. N., Teeple, E., Mandell, V. S.: Ulnar Artery Occlusion Simulating Reflex Sympathetic Dystrophy, **54:** 343
Spielman, F. J., Sprague, D. H.: Another Benefit of the Subatmospheric Alarm, **54:** 526
Spielman, F. J., Sprague, D. H., Mann, E. S., Mandell, V. S.: Development of Bronchial Obstruction with Secondary Lobar Emphysema during Anesthesia, **56:** 61
Spielman, F. J., *see* Lydon, J. C.
Spielman, S. R., *see* Gallagher, J. D.
Spierdijk, J., *see* Burm, A. G.
Spitzer, J. J., *see* Schumer, W.
Spoerel, W. E., *see* Bain, J. A.
Spohr, L., *see* Gibbs, C. P.
Spragg, R. G., Benumof, J. L., Alfery, D. D.: New Methods for the Performance of Unilateral Lung Lavage, **57:** 535
Sprague, D. H., Carter, S. R.: An Alternate Method for Nasogastric Tube Insertion, **53:** 436
Sprague, D. H., Sherwood, H. L.: Retrograde Cannulation of a Persistent Superior Vena Cava, **53:** 268
Sprague, D. H., *see* Mann, E. S.; *also see* Spielman, F. J.
Squires, K. C., *see* Uhl, R. R.
Stagg, D., *see* Saito, H.
Standaert, F. G., *see* Day, N. S.
Stanley, T. H.: Intrathecal Opiates, a Potent Tool to be Used with Caution, **53:** 523
Stanley, T. H., Berman, L., Green, O., Robertson, D.: Plasma Catecholamine and Cortisol Responses to Fentanyl–Oxygen Anesthesia for Coronary-artery Operations, **58:** 250
Stanley, T. H., Cazalaa, J. A., Limoge, A., Louville, Y.: Transcutaneous Cranial Electrical Stimulation Increases the Potency of Nitrous Oxide in Humans, **57:** 293
Stanley, T. H., Pace, N. L.: Statistics Should Support Anesthesiology Literature, **58:** 297
Stanley, T. H., *see* Bennett, G. M.; *also see* Bovill, J. G.; de Lange, S.; English, J. B.; Ghoneim, M. M.; Loeser, E. A.
Stanley, T. H. (ed.), *see* Aldrete, J. A. (ed.)
Stanley, T. T., *see* Youngberg, J. A.
Stanski, D. R.: Pharmacokinetic Modelling of Thiopental, **54:** 446
Stanski, D. R., Ham, J., Miller, R. D., Sheiner, L. B.: Time-dependent Increase in Sensitivity to *d*-Tubocurarine during Enflurane Anesthesia in Man, **52:** 483
Stanski, D. R., Hug, C. C., Jr.: Alfentanil—A Kinetically Predictable Narcotic Analgesic, **57:** 435
Stanski, D. R., Mihm, F. G., Rosenthal, M. H., Kalman, S. M.: Pharmacokinetics of High-dose Thiopental Used in Cerebral Resuscitation, **53:** 169
Stanski, D. R., Watkins, W. D.: Drug Disposition in Anesthesia, **59:** 170
Stanski, D. R., *see* Burch, P. G.; *also see* Feingold, A.; Feldman, S. A.; Fisher, D. M.; Ham, J.; Hudson, R. J.; Hug, C. C. Jr.; Kopman, A. F.; Mertens, Ph.; Morris, R. B.
Stapleton, J. V., *see* Austin, K. L.
Stånge, K., Halldin, M.: Hypothermia in Pregnancy, **58:** 460
Starek, P. J. K., *see* Porter, E. J.
Stark, D. C. C., *see* Hunter, A. R.
Stark, R. I., *see* Morishima, H. O.; *also see* Zubrow, A. B.
Starr, A., *see* Uhl, R. R.
Starr, N. J., *see* Zurick, A. M.
Staub, F., *see* Dauchot, P. J.
Stead, S. W., *see* Kraemer, C. A.
Stedman, P. M., *see* Diaz, J. H.
Steen, P. A.: Duplication and Fragmentation in Publications, **57:** 550
Steen, P. A., Michenfelder, J. D.: Mechanisms of Barbiturate Protection, **53:** 183
Steen, P. A., Milde, J. H., Michenfelder, J. D.: The Detrimental Effects of Prolonged Hypothermia and Rewarming in the Dog, **52:** 224
Steen, P. A., Newberg, L., Milde, J. H., Michenfelder, J. D.: Hypothermia and Barbiturates in Cerebral Oxygen Consumption, **58:** 527
Steen, P. A., *see* Artru, A. A.
Steen, P. A., *see* Gronert, G. A.
Stefani, S. J., Hughes, S. C., Shnider, S. M., Levinson, G., Abboud, T. K., Henriksen, E. H., Williams, V., Johnson, J.: Neonatal Neurobehavioral Effects of Inhalation Analgesia for Vaginal Delivery, **56:** 351
Stefani, S. J., *see* Amiel-Tison, C.
Steffey, E. P., Johnson, B. H., Eger, E. I., II: Nitrous Oxide Intensifies the Pulmonary Arterial Pressure Response to Venous Injection of Carbon Dioxide in the Dog, **52:** 52
Steffey, E. P., *see* Eisele, J. H., Jr.
Steg, N. L., *see* Naidu, R.
Stegnjajic, A., *see* Capistrano-Baruh, E.
Stehling, L., *see* Patil, V.
Stehling, L. C.: Common Problems in Pediatric Anesthesia, **59:** 171
Stehling, L. C.: Standardization of Intravenous Cannulas, **53:** 436
Stehling, L. C., *see* Patil, V. U.
Steiger, Z., *see* Wilson, R. F.
Stein, J. M., Lisbon, A.: Pulmonary Hemorrhage from Pulmonary Artery Catheterization Treated with Endobronchial Intubation, **55:** 698
Steinbereithner, K., *see* Zimpfer, M.
Steinberg, G. M.: Gerontologic Pharmacology Studies Urged by the National Institute on Aging, **57:** 554
Steinberg, L., *see* Capistrano-Baruh, E.
Steinsland, O. S., *see* Nelson, S. H.
Stene, J. K., Laravuso, R. B., Burns, B.: Changes in Lung Membrane Diffusing Capacity for Oxygen Produced by Halothane, **56:** 97
Stenqvist, O., Sonander, H.: Lung Model for Respiratory Quotient Measurements, **58:** 594
Stephens, T. S., *see* Ivankovich, A. D.
Stephenson, L. W., *see* Jobes, D. R.
Sternbach, G. I., *see* Rosen, P.
Sternick, C. S., Stirt, J. A.: Avoiding Sticky Situations, **61:** 113
Sternick, C. S., Stirt, J. A.: Blood is Thicker than Water (or CSF), **61:** 348
Sternick, C. S., *see* Stirt, J. A.
Stevens, A. J. (ed.): Preparation for Anaesthesia, **58:** 207
Stevens, D. S., *see* Munson, E. S.
Stevens, J., *see* Seo, N.
Stevens, J. J.: A Case of Thyrotoxic Crisis That Mimicked Malignant Hyperthermia, **59:** 263
Stevens, J. J.: Direct (Transthoracic) Endobronchial Intubation, **53:** 83
Stevens, J. J.: High Altitude and Intravenous Lidocaine, **53:** 349
Stevenson, J., *see* Mazze, R. I.
Stevenson, P. H., McLeskey, C. H.: Breakage of a Reservoir Bag Mount, an Unusual Anesthesia Machine Failure, **53:** 270
Stevenson-Smith, W., *see* Shupak, R. C.
Steward, D. J.: Manual of Pediatric Anesthesia, **53:** 272
Steward, D. J.: Preterm Infants are More Prone to Complications Following Minor Surgery than are Term Infants, **56:** 304

Steward, D. J., Pelton, D. A., Brummitt, W. M.: Audio *vs.* Visual Oxygen Alarm, **52:** 192
Steward, D. J., *see* Gregory, G. A.
Stewart, E. T., *see* Davidson, A. J.
Stienstra, R., *see* van Poorten, J. F.
Stiff, J. L., Harris, D. B.: Clonidine Withdrawal Complicated by Amitriptyline Therapy, **59:** 73
Stiffel, P., Hameroff, S. R., Blitt, C. D., Cork, R. C.: Variability in Assessment of Neuromuscular Blockade, **52:** 436
Stiles, C. M., *see* Keenan, M. A.
Stinson, E. B., *see* Hilberman, M.; *also see* Maseda, J.
Stinson, T. W., III, Donlon, J. V., Jr.: Interaction of Intraocular Air and Sulfur Hexafluoride with Nitrous Oxide: A Computer Simulation, **56:** 385
Stirt, J. A.: Succinylcholine in Rubinstein-Taybi Syndrome, **57:** 429
Stirt, J. A., Sternick, C. S.: Aminophylline and Anesthesia, **57:** 252
Stirt, J. A., *see* Berger, J. M.; *also see* Sternick, C. S.; Stone, D. J.; Kuhnert, P. M.
Stock, M. C., Downs, J. B.: Lubrication of Tracheal Tubes to Prevent Sore Throat from Intubation, **57:** 418
Stock, M. C., Downs, J. B.: Transient Phrenic Nerve Blockade during Internal Jugular Vein Cannulation Using the Anterolateral Approach, **57:** 230
Stoelting, R. K., Dierdorf, S. F.: Anesthesia and Co-existing Disease, **60:** 393
Stoelting, R. K., *see* Hilgenberg, J. C.; *also see* McCammon, R. L.; Roesch, R. P.
Stokke, D. B., Andersen, P. K., Brinkløv, M. M., Nedergaard, O. A., Hole, P., Rasmussen, N. J.: Acid–Base Interactions with Noradrenaline-induced Contractile Response of the Rabbit Isolated Aorta, **60:** 400
Stokstad, E. L. R., *see* Koblin, D. D.
Stone, D. J., Stirt, J. A., Kaplan, M. J., McLean, W. C.: A Complication of Lightwand-guided Nasotracheal Intubation, **61:** 780
Stone, D. R., Graves, S. A.: Compliances of Pediatric Rebreathing Bags, **53:** 434
Stonham, J., Moss, P.: Optimal Test Dose for Epidural Anesthesia, **58:** 389
Stoops, C. A., Ravindran, R. S., Viegas, O. J.: Reduced Volume Dose of Sodium Citrate, **58:** 201
Stoops, C. A., *see* Viegas, O. J.
Stowe, D. F., Bosnjak, Z. J., Kampine, J. P.: Halothane Diminishes Changes in Cardiac Fiber Action Potential Duration Induced by Hypocarbia and Hypercarbia, **61:** 245
Strauch, M. J.: Pharmacology of Respiratory Therapy Medications, **52:** 288
Strout, C. D., Nahrwold, M. L.: Halothane Requirement during Pregnancy and Lactation in Rats, **55:** 322
Strunin, L., Harrison, L. J., Davies, J. M.: Etiology of Halothane Hepatotoxicity, **58:** 391
Strunin, L., *see* Bird, T. M.
Stullken, E. H., *see* Ramsey, F. M.; *also see* Roy, R. C.
Stulz, P., *see* Skarvan, K.
Su, J. Y., Kerrick, W. G. L.: Effects of Enflurane of Functionally Skinned Myocardial Fibers from Rabbits, **52:** 385
Sugerman, H. J., Fairman, R. P.: Massive Weight Loss Will Improve Arterial Oxygenation in Selected Patients, **55:** 604
Sugimoto, H., *see* Sawada, Y.; *also see* Uenishi, M.
Sugimoto, T., *see* Sawada, Y.; *also see* Uenishi, M.
Suh, K., *see* Loubser, P.
Sumi, S. M., *see* Schimek, F.
Sumikawa, K., Amakata, Y., Kashimoto, T., Izumi, F.: Effects of Cyclopropane on Catecholamine Release from Bovine Adrenal Medulla, **53:** 49
Sumikawa, K., Amakata, Y., Yoshikawa, K., Kashimoto, T., Izumi, F.: Catecholamine Uptake and Release in Isolated Chromaffin Granules Exposed to Halothane, **53:** 385
Sumikawa, K., Ishizaka, N., Suzaki, M.: Arrhythmogenic Plasma Epinephrine Levels, **58:** 322
Sumikawa, K., Matsumoto, T., Amenomori, Y., Hirano, H., Amakata, Y.: Selective Actions of Intravenous Anesthetics on Nicotinic- and Muscarinic-Receptor-Mediated Responses of the Dog Adrenal Medulla, **59:** 412
Sumikawa, K., Matsumoto, T., Ishizaka, N., Nagai, H., Amenomori, Y., Amakata, Y.: Mechanism of the Differential Effects of Halothane on Nicotinic- and Muscarinic-Receptor-Mediated Responses of the Dog Adrenal Medulla, **57:** 444
Sumikawa, K., Nagai, H.: Moyamoya Disease and Anesthesia, **58:** 204
Sumner, A. E., *see* Hägerdal, M.
Sunder, N., *see* Savarese, J. J.
Sundt, T. M., Jr., *see* Lennon, R. L.; *also see* Anderson, R. E.
Sussman, M. D., *see* Marshall, W. K.; *also see* Woodside, J., Jr.
Suter, P. M., *see* Forster, A.; *also see* Hemmer, M.
Sutheimer, C., *see* Youngstrom, P. C.
Sutherland, J. B., *see* Prewitt, R. M.
Suzaki, M., *see* Sumikawa, K.
Suzukawa, M., Matsumoto, M., Collins, J. G., Kitahata, L. M., Yuge, O.: Dose-response Suppression of WDR Neurons by Spinal Fentanyl, **58:** 510
Suzukawa, M., *see* Collins, J. G.
Suzuki, T., *see* Furuya, H.
Swan, D. M., *see* Borland, L. M.
Swedlow, D. B., *see* Brzustowicz, R. M.; *also see* Fisher, D. M.; Karl, H. W.
Sweet, P. T., *see* Meakin, G.
Swen, J., *see* Gencarelli, P. J.
Swenson, P. C.: A Low Cost, Comfortable and Effective Anesthesia Earpiece, **55:** 607
Sybert, J. W., Kyff, J. V.: Ketamine Treatment of Status Epilepticus, **58:** 203
Sykes, M. K., Vickers, M. D., Hull, C. J., Winterburn, P. J.: Principles of Clinical Measurement, **56:** 159
Sykes, M. K., *see* Gardaz, J. P.
Sykes, W. S. (ed.), Ellis, R. H. (ed.): Essays on the First Hundred Years of Anaesthesia, Vol. III, **59:** 172
Szeinfeld, M., Pallares, V. S.: Reply to: Treatment of Causalgia, **58:** 295
Szeinfeld, M., Saucedo, R., Pallares, V. S.: Causalgia of Vascular Etiology Following an Abdominal Injury, **57:** 46
Szyfelbein, S. K., *see* Coté, C. J.; *also see* Leibel, W. S.; Martyn, J. A. J.
Szymanski, J., *see* McPherson, R. W.

T

Taenaka, N., *see* Shimada, Y.
Taff, R. H.: Intra-Arterial Thiopental, **57:** 543
Taff, R. H.: Pulmonary Edema Following Naloxone Administration in a Patient Without Heart Disease, **59:** 586
Tait, A. R., *see* Knight, P. R.
Takahashi, T., *see* Dohi, S.
Takeda, K., *see* Korenaga, S.
Takeshima, R., *see* Dohi, S.
Takeshita, H., *see* Fukuda, S.; *also see* Ishikawa, T.; Maekawa, T.; Sakabe, T.; Tateishi, A.
Takezawa, J., *see* Shimada, Y.
Takiyama, R., *see* Morio, M.
Talafre, M.-L., *see* Cohen, S. E.
Talmage, E. A.: Endotracheal Tube is Not Necessary for Laryngeal Microsurgery, **55:** 332
Tanaka, A., *see* Uehira, A.
Tanner, G.: Pitfalls in Deriving Pharmacokinetic Variables. I, **56:** 235
Tanner, G. E.: Concepts of Thiopental Distribution and Metabolism, Old and New, **59:** 484
Tarazi, R. C., *see* Estafanous, F. G.
Tarhan, S.: Cardiovascular Anesthesia and Postop Care, **59:** 370
Tarnow, J., *see* Schulte-Sasse, U.
Tarrow, A. B., Erickson, J. C., III: Basic and Clinical Sciences in Anesthesiology, **55:** 194
Tashiro, Chikara, *see* Mashimo, T.
Tateishi, A., Maekawa, T., Takeshita, H., Wakuta, K.: Diazepam and Intracranial Pressure, **54:** 335
Tateishi, A., *see* Sakabe, T.
Taylor, B., *see* Mayhew, J.
Teeple, E., Bowe, E. A.: Use of Cold Nasogastric Tubes Corrects Problems Due to Pliability, **55:** 477
Teeple, E., Ferrer, E. B., Ghia, J. N., Pallares, V.: Pourfour Du Petit Syndrome—Hypersympathetic Dysfunctional State Following a Direct Non-penetrating Injury to the

Cervical Sympathetic Chain and Brachial Plexus, **55:** 591
Teeple, E., Ghia, J. N.: An Elevated Pulmonary Wedge Pressure Resulting from an Upper Respiratory Obstruction in an Obese Patient, **59:** 66
Teeple, E., Ghia, J. N.: Treatment of Causalgia, **58:** 294
Teeple, E., Pavlov, I.: The Use of Compressed Air Made Easy—A Table, **55:** 696
Teeple, E., *see* Kafer, E. R.; *also see* Spielman, F. J.
Tenicela, R., *see* Tung, A. S.
Teplick, R. S., *see* Lowenstein, E.
Teplik, R. S., *see* Donlon, J. V., Jr.
Terai, C., *see* Uenishi, M.
Terrell, R. C., *see* Koblin, D. D.
Tétrault, J.-P., *see* Martin, R.
Tétreault, L., *see* Martin, R.
Thalhammer, J. G., *see* Namiki, A.
Thein, R. M. H., *see* Patel, R. I.
Theodorakis, M. C., *see* Tranquilli, W. J.
Thiagarajah, S., Azar, I., Agres, M., Lear, E.: Pacemaker Malfunction Associated with Positive-pressure Ventilation, **58:** 565
Thiagarajah, S., Frost, E. A. M., Singh, T., Shulman, K.: Cardiac Arrest Associated with Tension Pneumocephalus, **56:** 73
Thiagarajah, S., Job, C., Rao, A.: A Device for Applying CPAP to the Nonventilated Upper Lung during One-lung Ventilation. 1, **60:** 253
Thiagarajah, S., Lear, E., Azar, I., Salzer, J., Zeiligsohn, E.: Bronchospasm Following Interscalene Brachial Plexus Block, **61:** 759
Thiagarajah, S., *see* Azar, I.
Thomas, A. N., *see* Katz, J. A.
Thomas, D. V.: Noise in the Modern Operating Room, **54:** 523
Thomas, P. S., Arandia, H. Y., Leal, J. J.: A Useful Technique for Teaching Epidural Anesthesia, **60:** 263
Thompson, G. A., *see* Coyle, D. E.; *also see* Batra, M. S.
Thompson, G. E., Rorie, D. K.: Functional Anatomy of the Brachial Plexus Sheaths, **59:** 117
Thompson, G. E., *see* Moore, D. C.
Thompson, J., Conklin, K. A.: Anesthetic Management of a Pregnant Patient with Scleroderma, **59:** 69
Thompson, K. J., Melding, P., Hatangdi, V. S.: Pneumochylothorax: A Rare Complication of Stellate Ganglion Block, **55:** 589
Thompson, M., *see* Blanck, T. J. J.
Thompson, P. W., *see* Mushin, W. W.
Thompson, W. R., *see* Knill, R. L.
Thomson, I. R., Mutch, A. C., Culligan, J. D.: Failure of Intravenous Nitroglycerin to Prevent Intraoperative Myocardial Ischemia during Fentanyl-Pancuronium Anesthesia, **61:** 385
Thurmon, J. C., *see* Seeler, D. C.; *also see* Tranquilli, W. J.
Thys, D. M.: Inseparable Disposables, **58:** 203
Tien, Y. K., *see* Bergman, N. A.
Tinker, J. H.: Coronary Artery Occlusion—A Complex Regional Disease, **54:** 449
Tinker, J. H., Michenfelder, J. D.: Increased Resistance to Nitroprusside-induced Cyanide Toxicity in Anuric Dogs, **52:** 40
Tinker, J. H., *see* From, R.; *also see* Muir, J. J.; Noback, C. R.; Nugent, M.; Quasha, A. L.; Sharbrough, F. W.; Sill, J. C.; Warner, M. A.
Tobias, R., *see* Rosenberg, M.
Toda, N., Hatano, Y.: Contractile Responses of Canine Tracheal Muscle during Exposure to Fentanyl and Morphine, **53:** 93
Toda, N., *see* Fukuda, S.
Todd, M. M.: Atrial Fibrillation Induced by the Right Atrial Injection of Cold Fluids during Thermodilution Cardiac Output Determination: A Case Report, **59:** 253
Todd, M. M., Chadwick, H. S., Shapiro, H. M., Dunlop, B. J., Marshall, L. F., Dueck, R.: The Neurologic Effects of Thiopental Therapy Following Experimental Cardiac Arrest in Cats, **57:** 76
Todd, M. M., Drummond, J. C.: A Comparison of the Cerebrovascular and Metabolic Effects of Halothane and Isoflurane in the Cat, **60:** 276
Todd, M. M., Drummond, J. C.: Reply, **61:** 787
Todd, M. M., Drummond, J. C., U, H. S.: The Hemodynamic Consequences of High-dose Methohexital Anesthesia in Humans, **61:** 495
Todd, M. M., Toutant, S. M., Shapiro, H. M.: The Effects of High-frequency Positive-pressure Ventilation on Intracranial Pressure and Brain Surface Movement in Cats, **54:** 496
Todd, M. M., *see* Drummond, J. C.
Todd, S., *see* Morray, J.
Todres, I. D., *see* Liu, L. M. P.
Tolhurst-Cleaver, C. L., *see* Davies, G. K.
Tomlin, P. J.: Averaging Acidity Values, **53:** 86
Tommasino, C., Maekawa, T., Shapiro, H. M., Keifer-Goodman, J., Kohlenberger, R. W.: Fentanyl-induced Seizures Activate Subcortical Brain Metabolism, **60:** 283
Tonnesen, A. S., Vereen, L., Arens, J. F.: Endotracheal Tube Cuff Residual Volume and Lateral Wall Pressure in a Model Trachea, **55:** 680
Torres G., L. E., Reynolds, R. C.: A Complication of Use of a Microlaryngeal Surgery Endotracheal Tube, **53:** 355
Torres G., L. E., Traverso, L. W., Sohn, Y. Z.: Intraoperative Hemodynamic Changes in Patients Undergoing Mixed-cell Intraportal Autotransplantation of Pancreatic Tissue, **53:** 427
Torres, L. E., Reynolds, R. C.: Experiences with a New Endotracheal Tube for Microlaryngeal Surgery, **52:** 357
Torres, L. E., *see* Sill, J. C.
Torretti, J.: A Simple Solution for Collecting Drainage from a Nasogastric Tube, **57:** 346
Tosone, S., *see* Reves, J. G.
Toty, L., *see* Vourc'h, G.
Toung, T., Donham, R. T., Campbell, J. N.: Prevention of Tension Pneumocephalus, **57:** 65
Toung, T., Ngeow, Y. K., Long, D. L., Rogers, M. C., Traystman, R. J.: Comparison of the Effects of Positive end-expiratory Pressure and Jugular Venous Compression on Canine Cerebral Venous Pressure, **61:** 169
Toung, T. J. K., Donham, R. T., Shipley, R.: Thermal Burn Caused by a Laryngoscope, **55:** 184
Toutant, S. M., *see* Drummond, J. C.; *also see* Todd, M. M.
Townsend, J. F., *see* Johans, T. G.
Tranquilli, W. J., Manohar, M., Parks, C. M., Thurmon, J. C., Theodorakis, M. C., Benson, G. J., Chasnov, S.: Systemic and Regional Blood Flow Distribution in Unanesthetized Swine and Swine Anesthetized with Halothane + Nitrous Oxide, Halothane, or Enflurane, **56:** 369
Traverso, L. W., *see* Torres G., L. E.
Travis, K. W., Saini, V. K., O'Sullivan, P. T.: Upper-airway Obstruction and Achalasia of the Esophagus, **54:** 87
Traystman, R. J., *see* McPherson, R. W.; *also see* Toung, T.
Trevor, A. J., *see* White, P. F.; *also see* Bösterling, B.
Trickey, D. L., Sheikj, F. (associate contributor): Self-Assessment of Current Knowledge in Anesthesiology, 2nd Edition, **54:** 175
Triggs, E. J., *see* Shanks, C. A.
Triner, L.: A Simple Maneuver to Verify Proper Positioning of an Endotracheal Tube, **57:** 548
Triner, L., Sherman, J.: Potential Value of Expiratory Carbon Dioxide Measurement in Patients Considered to Be Susceptible to Malignant Hyperthermia, **55:** 482
Triner, L., Vulliemoz, Y., Verosky, M., Alpert, M.: Halothane Effect on cGMP and Control of Motor Activity in Mouse Cerebellum, **54:** 193
Tritz, J. P., *see* Fischler, M.
Trollope, M., *see* Shulman, M. S.
Tronick, E.: A Critique of the Neonatal Neurologic and Adaptive Capacity Score (NACS), **56:** 338
Trousdale, F. R., *see* Alfery, D. D.; *also see* Andersen, H. W.; Miller, J. R.; Pirlo, A. F.
Trout, C. A., *see* Shapiro, B. A.
Trubuhovich, R. V. (ed.): Management of Acute Intracranial Disaster, **52:** 288
Trudell, J. R., *see* Bösterling, B.; *also see* Edmunds, H. N.; Hong, K.; Linde, H. W.
Truedsson, H., *see* Reiz, S.
Trump, B. F. (ed.), *see* Cowley, R. A. (ed.)

Trundoff, H., *see* Cottrell, J. E.
Tsai, S. K., *see* Mok, M. S.
Tsuji, T., *see* Fukuda, S.
Tsujimoto, A., *see* Ikeda, M.
Tsujimoto, S., *see* Muneyuki, M.
Tung, A. S., Tenicela, R., Winter, P. M.: Opiate Withdrawal Syndrome Following Intrathecal Administration of Morphine, **53:** 340
Tuominen, M. K., *see* Rosenberg, P. H.
Turnbull, K. W., Smith, P. F. F., Banting, G. C., Engel, H. L., Hamilton, W. K., Keats, A. S.: Deaths Related to Anesthesia, **52:** 93
Turndorf, H., *see* Capan, L. M.; *also see* Patel, C.
Twersky, R., *see* Weinberg, S.
Tyler, C. W., Jr., *see* Peterson, H. B.
Tyler, I. L.: The Singularity in the Pressure—Volume Curve for the Pulmonary Artery Catheter Balloon—How to Completely Suppress It, **60:** 504
Tyler, I. L., *see* Boucek, C. D.
Tyrrell, J. B., *see* Gencarelli, P. J.

U

U, H. S., *see* Todd, M. M.
Udvarhelyi, G. B., *see* McPherson, R. W.
Ueda, I., *see* Kamaya, H.; *also see* Matubayasi, N.
Ueda, W., Hirakawa, M., Mae, O.: Epinephrine in Patients under Halothane Anesthesia for Closure of Cleft Palate, **58:** 574
Uefuji, T., *see* Furuya, H.
Uehira, A., Tanaka, A., Oda, M., Sato, T.: Obstruction of an Endotracheal Tube by Lidocaine Jelly, **55:** 598
Uenishi, M., Sugimoto, H., Sawada, Y., Terai, C., Yoshioka, T., Sugimoto, T.: Transesophageal Echocardiography during External Chest Compression in Humans, **60:** 618
Uetrecht, J., Wood, A. J. J., Phythyon, J. M., Wood, M.: Contrasting Effects on Halothane Hepatotoxicity in the Phenobarbital-Hypoxia and Triiodothyronine Model: Mechanistic Implications, **59:** 196
Uhl, R. R., Squires, K. C., Bruce, D. L., Starr, A.: Effect of Halothane Anesthesia on the Human Cortical Visual Evoked Response, **53:** 273
Ujike, Y., *see* Dohi, S.
Ullyot, D. J., *see* Quasha, A. L.
Uppfeldt, A., *see* Hallén, B.
Urban, B. J., *see* Fagraeus, L.
Urban, R. B., *see* Wheeler, A. S.
Urquhart, G. R., Shupak, R. C.: Pseudoarterialization of the CVP by an Infusion Pump, **59:** 79
Utley, J. R.: The Pathophysiology and Techniques of Cardiopulmonary Bypass-Volume II, **61:** 486
Utting, J. E. (ed.), *see* Gray, T. C. (ed.)

V

Valeri, C. R., *see* Cullen, D. J.
Vallotton, M. B., *see* Hemmer, M.
Van Dyke, R. A.: Chronic Ethanol Exposure and Anesthetic Metabolism, **58:** 221
van Heeckeren, D., *see* Dauchot, P. J.
van Heerden, J. A., *see* Muir, J. J.
van Kleef, J. W., *see* Burm, A. G. L.
van Poorten, J. F., Stienstra, R., Dworacek, B., Moleman, P., Rupreht, J.: Physostigmine Reversal of Psilocybin Intoxication, **56:** 313
Vandam, L. D.: American Society of Anesthesiologists Rovenstine Lecture—1979: Anesthesiologists as Clinicians, **53:** 40
Vandam, L. D.: Functional Anatomy of the Cervical Sympathetic Trunk, **57:** 139
Vandam, L. D.: Robert Hinckley's "The First Operation with Ether", **52:** 62
Vandam, L. D.: Society of Neurosurgical Anesthesia and Neurologic Supportive Care, **59:** 270
Vandam, L. D.: To Make the Patient Ready for Anesthesia Medical Care of the Surgical Patient, **61:** 232
Vandam, L. D. (ed.): To Make the Patient Ready for Anesthesia: Medical Care of the Surgical Patient, **54:** 358
VanDam, L. D. (ed.), *see* Volpitto, P. P. (ed.)
Vanga, C., *see* Burstein, A.
Varakian, L., *see* Abboud, T. K.
Varkey, G. P.: International Anesthesiology Clinics: Anesthetic Considerations in the Surgical Repair of Intracranial Aneurysms, **58:** 398
Varkey, G. P. (ed.): International Anesthesiology Clinics: Anesthetic Considerations in the Surgical Repair of Intracranial Aneurysms, **58:** 398
Varner, J. K., *see* Cahalan, M. K.
Varner, P. D., *see* Ebert, J.
Vatashsky, E., Aronson, H. B.: Continuous Interscalene Brachial Plexus Block for Surgical Operations on the Hand, **53:** 356
Vatner, S. F., *see* Priano, L. L.
Vaughan, R. W., Cork, R. C., Hollander, D.: The Effect of Massive Weight Loss on Arterial Oxygenation and Pulmonary Function Tests, **54:** 325
Vaughan, R. W., *see* Bentley, J. B.; *also see* Cork, R. C.
Vaughn, J., Casson, H., Hirshman, C. A.: Anesthesia in Child with Asthma and Presumed Susceptibility to Malignant Hyperthermia, **58:** 283
Ventafridda, V. (ed.), *see* Bonica, J. J. (ed.)
Venus, B.: Acromegalic Patient—Indication for Fiberoptic Bronchoscopy But Not Tracheostomy, **52:** 100
Venus, B., Pratap, K. S., Op'Tholt, T.: Treatment of Unilateral Pulmonary Insufficiency by Selective Administration of Continuous Positive Airway Pressure Through a Double-lumen Tube, **53:** 74
Verdouw, P. D., *see* Merin, R. G.
Vereen, L., *see* Tonnesen, A. S.
VerLee, T. R., *see* Philbin, D. M.
Verma, R. S., Reader, M. S.: "Self-taming" with Succinylcholine and Muscle Pain, **58:** 487
Verma, R. S., *see* Siler, J. N.
Verosky, M., *see* Triner, L.
Verrier, E. D., Edelist, G., Consigny, P. M., Robinson, S., Hoffman, J. I. E.: Greater Coronary Vascular Reserve in Dogs Anesthetized with Halothane, **53:** 445
Verrier, E. D., *see* Hickey, R. F.
Veselis, R., Korbon, G. A.: Juvenile Airway in an Adult with Suprasellar Tumor, **58:** 481
Vesell, E. S., Biebuyck, J. F.: New Approaches to Assessment of Drug Disposition in the Surgical Patient, **60:** 529
Vesey, C. J., *see* Cole, P. V.
Viale, J. P., *see* Annat, G.
Viale, J.-P., *see* Lomessy, A.
Viars, P., *see* Clergue, F.; *also see* Coriat, P.; Rouby, J. J.; Samii, K.
Viby-Mogensen, J.: Correlation of Succinylcholine Duration of Action with Plasma Cholinesterase Activity in Subjects with the Genotypically Normal Enzyme, **53:** 517
Viby-Mogensen, J.: Succinylcholine Neuromuscular Blockade in Subjects Heterozygous for Abnormal Plasma Cholinesterase, **55:** 231
Viby-Mogensen, J.: Succinylcholine Neuromuscular Blockade in Subjects Homozygous for Atypical Plasma Cholinesterase, **55:** 429
Viby-Mogensen, J., Howardy-Hansen, P., Chraemmer-Jørgensen, B., Ørding, H., Engbaek, J., Nielsen, A.: Posttetanic Count (PTC): A New Method of Evaluating an Intense Nondepolarizing Neuromuscular Blockade, **55:** 458
Viby-Mogensen, J., *see* Cullen, D. J.; *also see* Howardy-Hansen, P.
Vickers, M. D., *see* Sykes, M. K.
Viegas, O. J., Cummins, D. F., Ravindran, R. S., Stoops, C. A.: A Case for Using Disposable Anesthesia Circuitry, **60:** 169
Viegas, O. J., *see* Stoops, C. A.
Vierola, H., *see* Albright, G. A.
Villers, D., Pinaud, M. L. J., Bourin, M., Frison, B., Souron, R. J., Nicolas, F. M.: Propranolol Postoperative Maintenance by Continuous iv Infusion, **60:** 594
Vincent, M., *see* Annat, G.
Vinik, H. R., Reves, J. G., Greenblatt, D. J., Abernethy, D. R., Smith, L. R.: The Pharmacokinetics of Midazolam in Chronic Renal Failure Patients, **59:** 390
Viquerat, C. E., *see* Hemmer, M.
Virtue, R. W., Aldrete, J. A.: Costs of Delivery of Anesthetic Gases Re-examined. II, **55:** 711
Virtue, R. W., Mazze, R. I.: ASA Brochure

on Waste Anesthetic Gases Fails to Consider Prevention, **55:** 332
Vivaldi, E., *see* Garfield, J. M.
Vix, V. A., *see* Wilson, S. W.
Vlahakes, G. J., *see* Hickey, R. F.
Vogel, S., *see* Lynch, C., III
Vogelhut, M. M., *see* Bergquist, R. E.
Volpitto, P. P. (ed.), VanDam, L. D. (ed.): The Genesis of Contemporary American Anesthesiology, **59:** 370
von Colditz, J. H., *see* Seagard, J. L.
Vourc'h, G., Fischler, M., Personne, C., Colchen, A., Toty, L.: Anesthetic Management during Nd-YAG Laser Resection for Major Tracheobronchial Obstructing Tumors, **61:** 636
Vourc'h, G., *see* Fischler, M.
Vredevoe, L. A., Brechner, T., Moy, P.: Obstruction of Anomalous Tracheal Bronchus with Endotracheal Intubation, **55:** 581
Vucins, E. J., *see* Kotrly, K. J.
Vulliemoz, Y., *see* Triner, L.
Vurpillat, J. M., *see* Fischler, M.

W

Wagner, D. L., *see* Flewellen, E. H.
Wagner, P. D., *see* Dueck, R.
Wagner, R. H., *see* Zurick, A. M.
Wagner, R. L., White, P. F.: Etomidate Inhibits Adrenocortical Function in Surgical Patients, **61:** 647
Wakuta, K., *see* Tateishi, A.
Wald, A., Mercurio, A.: Blistering of Epoxy Material of Narco Airshields® Ventilator, **58:** 390
Wald, A., Neidzwski, J. T.: Tank Wrench Holder for Ohio Modulus® Anesthesia Machine, **58:** 109
Wald, A., *see* Mazza, N.
Waldron, B. A.: Management of Epidural Analgesia in Childbirth, **61:** 233
Walker, M. J. A., *see* Jang, T. L.; *also see* MacLeod, B. A.
Walker, S. E., Iazzetta, J.: Compatibility and Stability of Pentobarbital Infusions, **55:** 487
Waller, J. L., Hug, C. C., Jr., Nagle, D. M., Craver, J. M.: Hemodynamic Changes during Fentanyl-Oxygen Anesthesia for Aortocoronary Bypass Operation, **55:** 212
Waller, J. L., Zaidan, J. R., Kaplan, J. A., Bauman, D. I.: Hemodynamic Responses to Preoperative Vascular Cannulation in Patients with Coronary Artery Disease, **56:** 219
Waller, J. L., *see* Christian, C. M., II; *also see* Cruchley, P. M.
Walts, L. F., Miller, J., Davidson, M. B., Brown, J.: Perioperative Management of Diabetes Mellitus, **55:** 104
Walts, L. F., *see* Clark, R. B.
Wangler, M. A., Gupta, B.: Preferred Treatment of Fentanyl-Induced Postoperative Rigidity, **59:** 604
Wangler, M. A., Rosenblatt, R. M.: Methadone Titration to Avoid Excessive Respiratory Depression, **59:** 363
Wangler, M. A., Weaver, J. M.: A Method to Facilitate Fiberoptic Laryngoscopy, **61:** 111
Ward, C. F., Alfery, D. D., Benumof, J. L.: Hypertension following Nitroprusside, **52:** 525
Ward, C. F., *see* Alfery, D. D.
Ward, D. S.: Anesthesia for a Child with Leigh's Syndrome, **55:** 80
Ward, D. S.: Does Almitrine Restore Halothane-induced Depression of Hypoxic Respiratory Drive, **61:** 627
Ward, K., *see* O'Sullivan, H.
Ward, R. J., *see* Freund, P. R.
Ware, R. E., Robinson, S., Gregory, G. A.: Reply to: Baroresponse and Cardiovascular Depression by Halothane in Infants, **58:** 387
Wark, H., *see* James, I.
Warner, M. A., Divertie, M. B., Tinker, J. H.: Preoperative Cessation of Smoking and Pulmonary Complications in Coronary Artery Bypass Patients, **60:** 380
Warner, M. A., *see* Warner, M. E.
Warner, M. E., Warner, M. A., Leonard, P. F.: Anesthesia for Neodymium-YAG (Nd-YAG) Laser Resection of Major Airway Obstructing Tumors, **60:** 230
Warner, M. E., Warner, M. A., Leonard, P. F.: Reply, **61:** 637
Warren, P. R., Gintautas, J.: Problems with Dupaco Ventilator Valve Assembly, **53:** 524
Warren, R. G., *see* Webb, A. I.
Warshauer, A. D.: Is Bright Room Light Related to Retrolental Fibroplasia, **61:** 785
Wastila, W. B., *see* Savarese, J. J.
Watchmaker, G., *see* Wyrobek, A. J.
Waterman, P. M., *see* Marquez, J.
Waterson, C. K., *see* Hameroff, S. R.; *also see* Otto, C. W.
Watkins, C. A., *see* Rannels, D. E.
Watkins, W. D., *see* Stanski, D. R.
Watson, C. B.: Central Venous Catheter Placement for Cardiopulmonary Bypass, **53:** 86
Watson, C. B.: Use of Fiberoptic Bronchoscope to Change Endotracheal Tube Endorsed, **55:** 476
Watson, C. B., Bowe, E. A., Burk, W.: One-lung Anesthesia for Pediatric Thoracic Surgery: A New Use for the Fiberoptic Bronchoscope, **56:** 314
Watson, C. B., Clapham, M.: Transillumination for Correct Tube Positioning: Use of a New Fiberoptic Endotracheal Tube, **60:** 253
Watson, C. B., Norfleet, E. A.: An Effective Way to Disseminate Protocols for Managing Malignant Hyperthermia, **60:** 510
Watson, C. B., *see* Brown, C. Q.; *also see* Jones, D. E.; Wolf, S.
Watson, D., Simpson, J. C.: Yet Another Hazard of Percutaneous Central Venous Cannulation, **60:** 524
Watson, D., *see* Flashburg, M. H.
Watson, D. W., Downey, G. O.: Epidural Anesthesia for Labor and Delivery of Twins of a Paraplegic Mother, **52:** 259
Watson, J. D., *see* Gillett, G. B.
Watson, J. E., *see* Koblin, D. D.
Watson, R. L., *see* Doblar, D. D.; *also see* Rayburn, R. L.
Waud, B. E., Mookerjee, A., Waud, D. R.: Chronic Potassium Depletion and Sensitivity to Tubocurarine, **57:** 111
Waud, B. E., Waud, D. R.: Quantitative Examination of the Interaction of Competitive Neuromuscular Blocking Agents on the Indirectly Elicited Muscle Twitch, **61:** 420
Waud, B. E., *see* Son, S. L.
Waud, D. R., *see* Son, S. L.; *also see* Waud, B. E.
Wauquier, A., *see* Sebel, P. S.
Way, W. L., Hosobuchi, Y., Johnson, B. H., Eger, E. I., II, Bloom, F. E.: Anesthesia Does Not Increase Opioid Peptides in Cerebrospinal Fluid of Humans, **60:** 43
Way, W. L., *see* White, P. F.
Wayne, R., *see* Hirshman, C. A.
Wear, R., Robinson, S., Gregory, G. A.: The Effect of Halothane on the Baroresponse of Adult and Baby Rabbits, **56:** 188
Weaver, D. C., *see* Hamill, J. F.; *also see* White, P. F.
Weaver, J. M., *see* Wangler, M. A.
Webb, A. I., Warren, R. G., Ackroyd, R. E.: Anesthetic Machine Explosion, **57:** 343
Webb, P. J., James, F. M., III, Wheeler, A. S.: Shivering during Epidural Analgesia in Women in Labor, **55:** 706
Webb, T. D.: Intravenous Infusions: Making Life Easy, **59:** 482
Weber, S.: Observations Made in the Adductor Pollicis May Not Be Applicable to Other Muscle Groups, **61:** 353
Webster, C., *see* Garibaldi, R. A.
Webster, M. W., *see* Grundy, B. L.
Weddel, S. J., Ritter, R. R.: Serum Levels Following Epidural Administration of Morphine and Correlation with Relief of Postsurgical Pain, **54:** 210
Wedel, D. J., Mulroy, M. F.: Hemiparesis Following Dural Puncture, **59:** 475
Weeks, D. B.: Evaluation of a Disposable Humidifier for Use during Anesthesia, **54:** 337
Weeks, D. B., *see* Nagel, A. F.
Weeks, S. K., *see* Fisher, J. T.
Weibel, S., Mathews, M.: Reply to: Sharp Edges in Metal Endotracheal Tubes, **58:** 595
Weinberg, S., Kravath, R., Phillips, L., Mendez, H., Wolf, G. L.: Episodic Complete Airway Obstruction in Children with Undiagnosed Obstructive Sleep Apnea, **60:** 356

Weinberg, S., Phillips, L., Twersky, R., Cottrell, J. E., Braunstein, K. M.: Hypercoagulability in a Patient with a Brain Tumor, **61:** 200
Weingarten, A. E., *see* Neuman, G. G.
Weinstock, M., *see* Snir-Mor, I.
Weintraub, R. M., *see* Hastings, P. R.
Weir, D. G., *see* O'Sullivan, H.
Weiskopf, R. B., Bogetz, M. S., Roizen, M. F., Reid, I. A.: Cardiovascular and Metabolic Sequelae of Inducing Anesthesia with Ketamine or Thiopental in Hypovolemic Swine, **60:** 214
Weiss, J. B., *see* Datta, S.
Weiss, J. B., *see* Naulty, J. S.
Weiss, V., *see* Forster, A.
Weissman, C., Damask, M. C., Yang, J.: Noncardiogenic Pulmonary Edema Following Laryngeal Obstruction, **60:** 163
Weissman, C., *see* Askanazi, J.; *also see* Damask, M. C.; Pantuck, E. J.
Welch, J. P., *see* Coté, C. J.
Welch, M. H., *see* Guenter, C. A.
Welch, W. D.: Effect of Enflurane, Isoflurane, and Nitrous Oxide on the Microbicidal Activity of Human Polymorphonuclear Leukocytes, **61:** 188
Welch, W. D.: Halothane Inhibition of Microbicidal Oxidative Activity of PAM, **58:** 456
Welch, W. D.: Halothane Reversibly Inhibits Human Neutrophil Bacterial Killing, **55:** 650
Welch, W. D., Zaccari, J.: Effect of Halothane and N_2O on the Oxidative Activity of Human Neutrophils, **57:** 172
Wellons, H. A., *see* Ross, W. T., Jr.
Welsh, F. A., *see* Berntman, L.; *also see* Keykhak, M. M.
Welti, R. S., *see* Brodsky, J. B.
Wendt, M., *see* Hansen, J. E.
Weng, J. T., Smith, D. E., Graybar, G. B., Kirby, R. R.: Hypotension Secondary to Air Trapping with Expiratory Flow Retard, **60:** 350
Wenig, B., *see* Capistrano-Baruh, E.
Werner, O., *see* Fletcher, R.
Westenskow, D. R., *see* Hayes, J. K.
Westerlund, R.: A New Device Increases the Hazards of Methylmethacrylate Bone Cement, **54:** 90
Westfall, T. C., *see* Niederlehner, J. R.
Westheimer, D. N.: Reply to: Risk of Air Embolism during Catheter Placement, **58:** 206
Westheimer, D. N.: Right Atrial Catheter Placement: Use of a Wire Guide as the Intravascular ECG Lead, **56:** 478
Westmoreland, R. T., *see* Dewan, D. M.; *also see* James, F. M., III
Westover, J., Saidman, L. J.: Temperature-Related T-Wave Changes during Thoracotomy, **59:** 474
Wetstein, L., *see* Domino, K. B.
Wever, J., *see* Damen, J.
Weyerhaeuser, R., *see* Saklad, M.
Weymuller, E. A., Jr., *see* Bishop, M. J.
Whang-Peng, J., *see* Lees, D. E.
Wharton, R. S., Mazze, R. I., Wilson, A. I.: Reproduction and Fetal Development in Mice Chronically Exposed to Enflurane, **54:** 505
Wharton, R. S., *see* Fish, K.
Wheeler, A. S., James, F. M., III, Meis, P. J., Rose, J. C., Fishburne, J. I., Dewan, D. M., Urban, R. B., Greiss, F. C., Jr.: Effects of Nitroglycerin and Nitroprusside on the Uterine Vasculature of Gravid Ewes, **52:** 390
Wheeler, A. S., *see* Dewan, D. M.; *also see* James, F. M., III; Webb, P. J.; Writer, W. D. R.
Wheeler, A. S. (ed.), *see* James, F. M., III (ed.)
Wheeler, D. M., *see* McDanal, J. T.
White, P. A., *see* Ramsey, F. M.
White, P. F.: Reply, **61:** 224
White, P. F.: Reply to: In Defense of Volatile Anesthetics for Short Outpatient Surgery, **60:** 605
White, P. F.: Spontaneous Rupture of the Tympanic Membrane Occurring in the Absence of Middle Ear Disease, **59:** 368
White, P. F.: Use of a Thiopental—Lidocaine Combination for Elective Cardioversion, **60:** 511
White, P. F.: Use of Continuous Infusion *versus* Intermittent Bolus Administration of Fentanyl or Ketamine during Outpatient Anesthesia, **59:** 294
White, P. F., Coe, V., Dworsky, W. A., Margolis, A.: DIC Following Midtrimester Abortions, **58:** 99
White, P. F., Dworsky, W. A., Horai, Y., Trevor, A. J.: Comparison of Continuous Infusion Fentanyl or Ketamine versus Thiopental–Determining the Mean Effective Serum Concentrations for Outpatient Surgery, **59:** 574
White, P. F., Ham, J., Way, W. L., Trevor, A. J.: Pharmacology of Ketamine Isomers in Surgical Patients, **52:** 231
White, P. F., Hamill, J. F., Bedford, R. F., Weaver, D. C., Colohan, A. R.: IV *vs.* LTA Lidocaine: Does it Make Any Difference, **56:** 414
White, P. F., Schlobohm, R. M., Pitts, L. H., Lindauer, J. M.: A Randomized Study of Drugs for Preventing Increases in Intracranial Pressure during Endotracheal Suctioning, **57:** 242
White, P. F., Way, W. L., Trevor, A. J.: Ketamine—Its Pharmacology and Therapeutic Uses, **56:** 119
White, P. F., *see* Schüttler, J.; *also see* Shafer, A.; Wagner, R. L.
White, Paul F.: Comparative Evaluation of Intravenous Agents for Rapid Sequence Induction—Thiopental, Ketamine, and Midazolam, **57:** 279
Wiegert, P. E.: Another Cause of Obstruction in an Armored Endotracheal Tube (Correspondence), **59:** 164
Wikinski, J. A., *see* Andrade, P. A.
Wilcock, M. M., *see* Shah, J.
Wiley, J. K., *see* Blass, N. H.
Wilkenson, P. L. (ed.), Ham, J. (ed.), Miller, R. D. (ed.): Clinical Anesthesia. Case Selections from the University of California, San Francisco, **53:** 358
Wilkinson, C., Clark, H.: Refractory Hypertension during Coarctectomy, **57:** 540
Wilkinson, P. L., *see* Morris, R. B.
Williams, J. J., Marshall, B. E.: A Fresh Look at an Old Question, **56:** 1
Williams, J. J., *see* Domino, K. B.; *also see* McDonnell, T. E.
Williams, N. E., *see* Calvey, T. N.
Williams, R. T.: Comments from an Experienced User of the Airway Intubator, **61:** 108
Williams, V., *see* Stefani, S. J.
Willis, M. M., *see* Lerman, J.; *also see* Palmisano, B. W.
Willis, R. J., *see* Gourlay, G. K.
Wilson, A. I., *see* Wharton, R. S.
Wilson, D. B., Dundee, J. W.: Failure of Divided Doses of Succinylcholine to Reduce the Incidence of Muscle Pains, **52:** 273
Wilson, M., *see* Rasch, D. R.
Wilson, P. R., *see* Glynn, C. J.; *also see* Gourlay, G. K.
Wilson, R. F., Steiger, Z., Jacobs, J., Sison, O. S., Holsey, C.: Temporary Partial Cardiopulmonary Bypass during Emergency Operative Management of Near Total Tracheal Occlusion, **61:** 103
Wilson, S. W., Moorthy, S. S., Mahomed, Y., Vix, V. A.: Catheter Doubling in Left Main Pulmonary Artery, **60:** 266
Wingard, D. W.: Controversies in Prophylactic Use of Dantrolene for Malignant Hyperthermia, **58:** 489
Wingard, D. W., *see* Chapin, J. W.; *also see* Edelman, J. D.; Peters, K. R.
Winkle, W. E., *see* Brooks, T. D.
Winnie, A. P.: The Use of Saline for the Differential Diagnosis of Pain Mechanisms, **54:** 432
Winter, P. M., *see* Marquez, J.; *also see* Tung, A. S.
Winterburn, P. J., *see* Sykes, M. K.
Wise, A., *see* Roy, R. C.
Wise, C. C., *see* Evans, J. M.
Witkowski, J., *see* Lutsky, I.
Witt, W. O., Manawadu, B. R.: Incompatibility of a New Pediatric Endotracheal Tube with Existing Fittings, **52:** 280
Wolf, G. L., Capuano, C., Hartung, J.: Nitrous Oxide Increases Intraocular Pressure after Intravitreal Sulfur Hexafluoride Injection, **59:** 557
Wolf, G. L., *see* Weinberg, S.
Wolf, L. J., *see* Morgan, D. J.

Wolf, S.: Bullae Formation from a Contoured Stethoscope, **54:** 521
Wolf, S., Albin, M.: Anesthetic Management of Pneumoencephalus, **53:** 521
Wolf, S., Mangano, D. T.: Pseudoaneurysm, a Late Complication of Radial-artery Catheterization, **52:** 80
Wolf, S., Watson, C. B., Clark, P.: An Unusual Cause of Leakage in an Anesthesia System, **55:** 83
Wolf, S., *see* Alexander, C.; *also see* Kruczek, M.; Spielman, F.
Wollman, S. B., Neuman, G. G.: Retinal Surgery in the Prone Position: An Inexpensive Simple Headrest, **61:** 109
Wolner, E., *see* Haider, W.
Wong, H. C., *see* Gardner, R. M.
Wood, A. J. J., *see* Uetrecht, J.; *also see* Wood, M.
Wood, A. J. J. (ed.), *see* Wood, M. (ed.)
Wood, L. D. H., *see* Light, R. B.; *also see* Prewitt, R. M.
Wood, M., Berman, M. L., Harbison, R. D., Hoyle, P., Phythyon, J. M., Wood, A. J. J.: Halothane-induced Hepatic Necrosis in Triiodothyronine-pretreated Rats, **52:** 470
Wood, M., *see* Uetrecht, J.
Wood, M. (ed.), Wood, A. J. J. (ed.): Drugs and Anesthesia. Pharmacology for Anesthesiologists, **58:** 597
Woodruff, R. E., *see* Mazze, R. I.
Woods, W. A., Cohen, S. E.: High-Dose Epidural Morphine in a Terminally Ill Patient, **56:** 311
Woods, W. A., *see* Cohen, S. E.
Woodside, J., Jr., Garner, L., Bedford, R. F., Sussman, M. D., Miller, E. D., Jr., Longnecker, D. E., Epstein, R. M.: Captopril Reduces the Dose Requirement for Sodium Nitroprusside Induced Hypotension, **60:** 413
Woodside, J. R., Jr., Beckman, J. J., Althaus, J. S., Peach, M. J., Longnecker, D. E., Miller, E. D., Jr.: Renovascular Hypertension: Effect of Halothane and Enflurane, **60:** 440
Woodside, J. R., Jr., *see* Miller, E. D., Jr.; *also see* Raja, S. N.
Woodward, W. R., *see* Hermens, J. M.
Woolman, H. (ed.), *see* Hirsh, R. A. (ed.)
Worthen, M., *see* Beeby, D. G.
Wray, R. P.: A Source of Nonanesthetic Nitrous Oxide in Operating Room Air, **52:** 88
Wright, A. J., *see* Aldrete, J. A.
Wright, B. D., *see* Bennett, R. L.
Wright, P. H., *see* Gingerich, R.
Wright, W. W., *see* Kanter, R. K.
Writer, W. D. R., James, F. M., III, Wheeler, A. S.: Double-blind Comparison of Morphine and Bupivacaine for Continuous Epidural Analgesia in Labor, **54:** 215
Wu, A., *see* Bosnjak, Z. J.
Wu, W.-H., *see* Berry, A. J.
Wuest, H. P., *see* Kofke, W. A.
Wulfson, H. D., Askanazi, J., Finck, A. D.: Propranolol prior to ECT Associated with Asystole, **60:** 255
Wurm, H., *see* Bourke, D. L.
Wyner, J., Cohen, S. E.: Gastric Volume in Early Pregnancy: Effect of Metoclopramide, **57:** 209
Wyner, J., *see* Brodsky, J. B.; *also see* Cohen, S. E.
Wyrobek, A. J., Brodsky, J., Gordon, L., Moore, D. H., II, Watchmaker, G., Cohen, E. N.: Sperm Studies in Anesthesiologists, **55:** 527

X

Xavier, B., *see* Feeley, T. W.
Xuan, B. B., *see* Annat, G.

Y

Yacoub, O. F., Cardona, I., Jr., Coveler, L. A., Dodson, M. G.: Carbon Dioxide Embolism during Laparoscopy, **57:** 533
Yaksh, T. L.: Effects of Spinally Administered Agents on Spinal Cord Blood Flow: A Need for Further Studies, **59:** 173
Yaksh, T. L., Howe, J. R.: Opiate Receptors and Their Definition by Antagonists, **56:** 246
Yaksh, T. L., Reddy, S. V. R.: Studies in the Primate on the Analgetic Effects Associated with Intrathecal Actions of Opiates, α-Adrenergic Agonists and Baclofen, **54:** 451
Yamashiro, S. M., *see* Grodins, F. S.
Yamashita, M., Matsuki, A.: Use of a Garbage Bag for Patient Transfer, **59:** 168
Yamut, F., *see* Baraka, A.
Yanagida, H.: Facial Pain Induced by Music, **58:** 388
Yanagida, H., Corssen, G.: Respiratory Distress and Beta-Endorphin-Like Immunoreactivity in Humans, **55:** 515
Yang, J., *see* Weissman, C.
Yang, J. C., Clark, W. C., Ngai, S. H.: Antagonism of Nitrous Oxide Analgesia by Naloxone in Man, **52:** 414
Yang, J. C., *see* Clark, W. C.
Yao, F.-S., Seidman, S. F., Artusio, J. F., Jr.: Disturbance of Consciousness and Hypocalcemia after Neomycin Irrigation, and Reversal by Calcium and Physostigmine, **53:** 69
Yasuda, I., Hirano, T., Amaha, K., Fudeta, H., Obara, S.: Chronotropic Effects of Succinylcholine and Succinylmonocholine on the Sinoatrial Node, **57:** 289
Yazigi, W., *see* Baraka, A.
Yelderman, M.: Transconjunctival Oxygen Measurements in Critical Care Medicine, **59:** 266
Yelderman, M., New, W., Jr.: Evaluation of Pulse Oximetry, **59:** 349
Yelderman, M., New, W., Jr., Rosenthal, M., Ream, A.: Improved Clinical Measurement of Pulmonary Vascular Resistance, **52:** 365
Yelderman, M., *see* Kimble, K. J.
Yelich, S. J., *see* Ovassapian, A.
Yin, A. S., *see* Berry, A. J.
Yodlowski, E. H., Mortimer, J. T.: The Relationship Between Receptor Occlusion and the Frequency Sweep Electromyogram during Competitive Neuromuscular Blockade, **54:** 23
Yodlowski, E. H., *see* Crumrine, R. S.
Yonei, A., *see* Oshita, S.
Yonezawa, T., *see* Nishino, T.
Yoon, Y. K., *see* Sawhney, K. K.
Yoshikawa, K., *see* Sumikawa, K.
Yoshimura, N., *see* Goromaru, T.
Yoshioka, T., *see* Sawada, Y.; *also see* Ueni-shi, M.
Yoshiya, I., *see* Mashimo, T.; *also see* Shimada, Y.
Young, I., *see* Dueck, R.
Young, M. L., Smith, D. S., Greenberg, J., Reivich, M., Harp, J. R.: Effects of Sufentanil on Regional Cerebral Glucose Utilization in Rats, **61:** 564
Young, M. L., *see* Bagshaw, R. J.
Young, M. R., *see* Cruchley, P. M.
Young, P. S., *see* Shulman, M.
Young, W. G., *see* Ozanne, G. M.
Youngberg, J., *see* Graybar, G.
Youngberg, J. A., Loeser, E. A., Stanley, T. T.: What are the Real Factors Associated with Postoperative Sore Throat, **54:** 171
Youngstrom, P. C., Cowan, R. I., Sutheimer, C., Eastwood, D. W., Yu, J. C. M.: Pain Relief and Plasma Concentrations from Epidural and Intramuscular Morphine in Post-Cesarean Patients, **57:** 404
Younker, D., DeVore, M., Hartlage, P.: Malignant Hyperthermia and Glucose-6-phosphate Dehydrogenase Deficiency, **60:** 601
Youssef, H. A. E.: Hypophosphatemic Respiratory Failure Complicating Total Parenteral Nutrition—An Iatrogenic Potentially Lethal Hazard, **57:** 246
Yu, J. C. M., *see* Youngstrom, P. C.
Yuge, O., *see* Suzukawa, M.
Yusuf, S., *see* Lowenstein, E.

Z

Zaccari, J., *see* Eyler, S. W.; *also see* Welch, W. D.
Zaggy, A. P., *see* Kates, R. A.
Zahed, B., *see* Miletich, D. J.
Zaidan, J. R.: Pacemakers, **60:** 319
Zaidan, J. R., Kaplan, J. A.: Cardiovascular Effects of Metocurine in Patients with Aortic Stenosis, **56:** 395
Zaidan, J. R., *see* McDonald, D. H.; *also see* Waller, J. L.
Zalkind, M. S., *see* Ovassapian, A.
Zamost, B. G., *see* Alfery, D. D.
Zapo, W. M., *see* Erdmann, A. J.

Zauder, H. L.: Anesthesia for Orthopaedic Surgery, **54:** 44
Zauder, H. L.: Medical Jargon—A Few Lines about "Lines", **53:** 271
Zauder, H. L., *see* Patil, V. U.
Zawin, M., *see* Maneksha, F. R.
Zborowska-Sluis, D. T., *see* Klassen, G. A.
Zbuzek, V. M., *see* Berry, A. J.
Zebrowski, M. E., *see* Gross, J. B.
Zeiligsohn, E., *see* Thiagarajah, S.
Zervas, N. T. (ed.), *see* Ropper, A. L. (ed.)
Ziadlou-Rad, F., *see* Conklin, K. A.
Ziadlourad, F., *see* Conklin, K. A.
Zimmerman, B. L., Lord, J.: Contamination of an Anesthesia System with Liquid Halothane, **52:** 512
Zimpfer, M., Gilly, H., Krösl, P., Schlag, G., Steinbereithner, K.: Effects of Enflurane on Cardiac Performance, **58:** 159
Zindler, M., *see* Mikat, M.
Zindler, M. (ed.), *see* Rugheimer, E. (ed.)
Zinn, S. E., Ozanne, G. M., Fairley, H. B.: Mixed Expired Gas Transients as a Non-invasive Index of the Effects of PEEP, **52:** 261
Zinn, S. E., *see* Katz, J. A.; *also see* Ozanne, G. M.
Zmyslowski, W. P.: Treating Peripheral Venospasm, **60:** 261
Zmyslowski, W. P., Janfaza, P.: Rare Cause of Stridor, **52:** 95
Zmyslowski, W. P., Janfaza, P.: The Ts of Endotracheal Intubation, **58:** 107
Zmyslowski, W. P., Lena, D. M.: Dinamap® Adaptation for Neonatal Blood Pressure Determination, **58:** 583
Zorab, J. S. M.: A Simple, Fool-proof Method to Prevent Hypoxic Accidents, **60:** 515
Zubrow, A. B., Daniel, S. S., Stark, R. I., Husain, M. K., James, L. S.: Plasma Renin and Vasopressin during Hypotension, **58:** 245
Zurick, A. M., Wagner, R. H., Starr, N. J., Lytle, B., Estafanous, F. G.: Intravenous Nitroglycerin, Methemoglobinemia, and Respiratory Distress in a Postoperative Cardiac Surgical Patient, **61:** 464
Zwiren, G. T., *see* Reedy, J. C.